10/699563

* * *	* *	* *	* *	* Welcome to STN International ' * * * * * * * * *	
NEWS	1	•		Web Page URLs for STN Seminar Schedule - N. America	
NEWS	2			"Ask CAS" for self-help around the clock	
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\\			00	(ROSPATENT) added to list of core patent offices covered	
NEWS	4	FEB	28	PATDPAFULL - New display fields provide for legal status	
	_		00	data from INPADOC	
NEWS		FEB		BABS - Current-awareness alerts (SDIs) available	
NEWS	_	FEB		MEDLINE/LMEDLINE reloaded	
NEWS		MAR		GBFULL: New full-text patent database on STN	
NEWS		MAR		REGISTRY/ZREGISTRY - Sequence annotations enhanced	
NEWS	9	MAR	03	MEDLINE file segment of TOXCENTER reloaded	
NEWS	10	MAR	22	KOREAPAT now updated monthly; patent information enhanced	
NEWS	11	MAR	22	Original IDE display format returns to REGISTRY/ZREGISTRY	
NEWS	12	MAR	22	PATDPASPC - New patent database available	
NEWS	13	MAR	22	REGISTRY/ZREGISTRY enhanced with experimental property tag	S
NEWS	14	APR	04	EPFULL enhanced with additional patent information and new fields	٢
NEWS	15	APR	04	EMBASE - Database reloaded and enhanced	
NEWS	EXP	RESS	JAI	NUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT	
			MA	CINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),	
			AN	D CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005	
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COST IN U.S. DOLLARS
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FULL ESTIMATED COST
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0.21

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STRUCTURE FILE UPDATES: 5 APR 2005 HIGHEST RN 847968-12-1

DICTIONARY FILE UPDATES: 5 APR 2005 HIGHEST RN 847968-12-1

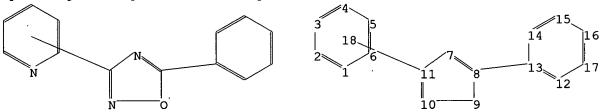
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 chain bonds : 8-13 ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11 12-13 12-17 13-14 14-15 15-16 16-17 exact/norm bonds : 7-8 7-11 10-11 exact bonds : 8-9 8-13 9-10 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17 isolated ring systems : containing 1:7:12:

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

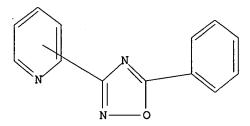
L1 STRUCTURE UPLOADED

=> dis 11

L1 HAS NO ANSWERS

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11 sam

SAMPLE SEARCH INITIATED 15:20:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 638 TO ITERATE

100.0% PROCESSED 638 ITERATIONS

50 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

11245 TO 14275

PROJECTED ANSWERS:

608 TO 1472

L2

50 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:20:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12666 TO ITERATE

100.0% PROCESSED 12666 ITERATIONS

960 ANSWERS

SEARCH TIME: 00.00.01

L3 960 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION 161.33 161.54

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FILE COVERS 1907 - 6 Apr 2005 VOL 142 ISS 15 FILE LAST UPDATED: 5 Apr 2005 (20050405/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 1351 L3 L4=> s 14 and pd<sept 2000 20558864 PD<SEPT 2000 (PD<20000900) 30 L4 AND PD<SEPT 2000 L5 => dis 15 1-30 bib abs hitstr ANSWER 1 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN 2000:191084 HCAPLUS AN DN 132:222538 Preparation of 2-[(oxadiazolylpyridinyl)oxymethyl]- α -ΤI methoxyiminophenylacetamides as agrochemical fungicides Kirby, Neil Vincent; Canada, Emily Jane; Morrison, Irene Mae; Pieczko, IN Mary Elizabeth; Gustafson, Gary David; Mathieson, John Todd; Cooper, David Harry; Galka, Christopher Stanley; Adamski, Jenifer Lynn

PA Dow Agrosciences Llc, USA SO PCT Int. Appl., 59 pp. CODEN: PIXXD2

DT Patent

LA English

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AB R1COC(:ZOMe)Z1Z2Z3R [I; R = (un)substituted di- or triazolyl, -oxazolyl, -thiazolyl, etc.; R1 = OMe or NHMe; Z = CH or N; Z1 = (un)substituted 1,2-phenylene; Z2 = O, SOO-2, CH2, CH2O, CH:CH, etc.; Z3 = (un)substituted pyridinediyl] were prepared Thus, 5,6-dichloro-3-pyridinecarbonitrile was condensed with H2NOH and the product cyclocondensed with Me3CCOCl to give, in 2 addnl. steps, 5-tert-butyl-3-(5-chloro-6-methylsulfonyl-3-pyridinyl)-1,2,4-oxadiazole which was etherified by 2-hydroxymethyl-α-methoxyimino-N-methylbenzeneacetamide to give title compound II. Data for biol. activity of I were given.

II

IT 261624-36-6P 261624-41-3P 261625-23-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 2-[(oxadiazolylpyridinyl)oxymethyl]-α-methoxyiminophenylacetamides as agrochem. fungicides)

RN 261624-36-6 HCAPLUS CN Benzeneacetamide, 2-[[[3-chloro-5-(5-phenyl-1,2,4-oxadiazol-3-yl)-2-pyridinyl]oxy]methyl]- α -(methoxyimino)-N-methyl-(9CI) (CA INDEX NAME)

RN 261624-41-3 HCAPLUS
CN Benzeneacetamide, α-(methoxyimino)-N-methyl-2-[[[5-(5-phenyl-1,2,4-oxadiazol-3-yl)-2-pyridinyl]oxy]methyl]- (9CI) (CA INDEX NAME)

RN 261625-23-4 HCAPLUS

CN Benzeneacetamide, α-(methoxyimino)-N-methyl-2-[[[6-(5-phenyl-1,2,4-oxadiazol-3-yl)-2-pyridinyl]oxy]methyl]- (9CI) (CA INDEX NAME)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:808214 HCAPLUS

DN 132:151748

TI Solid-phase synthesis of 1,2,4-oxadiazoles

AU Sams, Christian K.; Lau, Jesper

CS Novo Nordisk A/S, Medicinal Chemistry Research, Malov, DK-2760, Den.

SO Tetrahedron Letters (1999), 40(52), 9359-9362 CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 132:151748

AB The synthesis of 3,5-substituted 1,2,4-oxadiazoles on solid support is described. Benzoic acids bound to the Wang linker on a polystyrene resin are activated and allowed to react with N-hydroxy amidines. The resulting acylated N-hydroxy amidines are converted into 1,2,4-oxadiazoles at 125°C.

IT 258267-82-2P 258267-90-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (solid-phase synthesis of 1,2,4-oxadiazoles)

RN 258267-82-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-[5-(4-hydroxy-3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]-6-methyl-4-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)

RN 258267-90-2 HCAPLUS

CN 3-Pyridinecarboxylic acid, 5-[5-[3-(1,1-dimethylethyl)-4-hydroxyphenyl]-1,2,4-oxadiazol-3-yl]-6-methyl-4-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
Me & N \\
N & C-OEt \\
\hline
CF3 & O
\end{array}$$

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:253079 HCAPLUS

DN 128:294783

TI New oxadiazoles, method for their preparation, and their use as drugs

IN Brenner, Michael; Maier, Roland; Wienrich, Marion; Weiser, Thomas; Palluk,
Rainer; Bechtel, Wolf-Dietrich; Sagrada, Angelo; Ensinger, Helmut;
Pschorn, Uwe; Cesana, Raffaele

PA Boehringer Ingelheim K.-G., Germany

SO Ger. Offen., 58 pp.

CODEN: GWXXBX

DT Patent

LA German

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	ΑU	7375	52			B2		2001	0823										
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	CN 1086698	В	20020626		
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	JP 2000505089	Т2	20000425	JP 1998-505639	19971015 <
	JP 3333523	B2	20021015		
	RU 2182905	C2	20020527	RU 1999-111781	19971015
	TW 413678	В	20001201	TW 1997-86115386	19971018
	NO 9901815	Α	19990416	NO 1999-1815	19990416 <
	NO 312512	B1	20020521		•
	KR 2000049253	Α	20000725	KR 1999-703360	19990416 <
	US 6277872	B1	20010821	US 1999-284382	19990726
	нк 1020956	A1	20021004	нк 1999-106174	19991229
PRAI	DE 1996-19643037	Α	19961018		
	WO 1997-EP5693	W	19971015		
os	MARPAT 128:294783				
GI					

AB The title compds. [I; R1 = H, (un)substituted C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl or Ph; X, Y = O, N; X = Y \neq N \neq O; Z = substituted Ph] were prepared For example, cyclocondensation of Ph(:NH)NHOH (preparation from PhCN and NH2OH given) with 2-HOC6H4CO2Me in EtOH in the presence of NaOEt gave 92% 5-(2-hydroxyphenyl)-3-phenyl-1,2,4-oxadiazole which was etherified with Me2NCH2CH2Cl in dioxane in the presence of NaH to give 64% title compound II. This at 100 μ M in vitro gave 86% inhibition of kainate-induced signal at AMPA receptors.

IT 206260-75-5P 206260-77-7P 206260-93-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(new oxadiazoles, method for their preparation, and their use as neuroprotective drugs)

RN 206260-75-5 HCAPLUS

CN Ethanamine, N, N-dimethyl-2-[2-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{O-CH}_2\text{-CH}_2\text{-NMe}_2 \\ \hline \\ & \text{N-O} \end{array}$$

HCl

RN 206260-77-7 HCAPLUS

CN Ethanamine, N,N-dimethyl-2-[2-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

HCl

RN 206260-93-7 HCAPLUS

CN Ethanamine, N,N-dimethyl-2-[2-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{O-} \text{CH}_2\text{--} \text{CH}_2\text{--} \text{NMe}_2 \\ \hline \text{N--O} & \\ \end{array}$$

HCl

- L5 ANSWER 4 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 1997:218623 HCAPLUS
- DN 126:212048
- TI Substituted aromatic compounds and their pharmaceutical use as inhibitors of TNF and PDE IV.
- IN Aldous, David John; Smith, Graham Frank; Astles, Peter Charles; Pickett, Stephen Dennis; McLay, Iain McFarlane; Stuttle, Keith Alfred James; Ratcliffe, Andrew James; et al.
- PA Rhone-Poulenc Rorer Limited, UK
- SO PCT Int. Appl., 159 pp.

CODEN: PIXXD2

DT Patent LA English FAN.CNT 1

FAN.	CNT 1					_									ъ.		
	PATENT	NO.			KIN:	D ·	DATE		4	APPL.	ICAT	TON	NO.		עם –	ATE	
ΡI	WO 970	 3967			A1	-	 1997	0206	1	WO 1	996-	GB17	46		1	9960	722 <
	w:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	DK,
		EE,	ES,	FI,	GB,	GE,	ΗU,	IL,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LK,	LR,
			LT,														
		SD,	SE														
	RW	: KE,	LS,	MW,	SD,	SZ,	ŪG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,
			IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM			
	AU 966	5268			A1		1997	0218		AU 1	996-	6526	8		1	9960	722 <
PRAI	GB 199	5-150	58		Α		1995	0722									
	GB 199	5-157	29		Α		1995	0801									
	GB 199	6-453	1		Α		1996	0302									
	US 199	6-142	12P		P		1996	0327									
	WO 199	6-GB1	746		W		1996	0722									
OS GI	MARPAT	126:	2120	48					•								

$$\begin{array}{c|c}
R^{1}Z^{1} & Q^{1} \\
Q^{2} & Q^{2}
\end{array}$$

$$\begin{array}{c|c}
R^{2}A^{1}Z^{2} & Q^{3} & Z^{3}R^{3}
\end{array}$$

$$C1 \xrightarrow{N \to 0} O \xrightarrow{H \to 0} C1$$

The invention describes compds. I [wherein R1 = (un) substituted alkyl, or AΒ when Z1 = bond, R1 may also = H; R2 = (un)substituted aryl, partially saturated bicycloaryl, heteroaryl, or RaRbN; R3 = (un)substituted aryl or heteroaryl; A1 = bond, (un) substituted C1-6 alkylene or C2-6 alk(en/yn)ylene optionally interrupted by O, S, phenylene, imino, alkylimino, SO, or SO2; Z1, Z2 = O, S or bond; Z3 = C.tplbond.C, CH2CZ, CZCH2, CZCZ, CH2NH, CH2O, CH2S, CH2SO, CH2SO2, CF2O, CZNH, NHCH2, OCH2, SCH2, SOCH2, SO2CH2, OCF2, OCZ, NHCZ, N:N, NHSO2, SO2NH, CZCZNH, NHCOO, OCONH, C(:NORc)CH2, C(F):N, CH(F)CH2, or NHCONH; Z = O or S; Ra, Rb = alkyl or arylalkyl; or NRaRb = 4- to 6-membered cyclic amine optionally containing addnl. O, S, NH, or NRc or substituted with oxo; Rc = alkyl or arylalkyl; Q1, Q2, Q3 = CH, CX1, or N; and X1 = halo] and their N-oxides, prodrugs, pharmaceutically acceptable salts, and solvates (e.g. hydrates). The invention also describes processes for preparing I, pharmaceutical compns. comprising I, and their use in therapy as inhibitors of TNF and type IV cAMP phosphodiesterase (PDE) (no data). For example,

10/699563

 $5-[[(3,5-\text{dichloropyridin}-4-yl)\,\text{imino}]$ fluoromethyl]-2-methoxyphenol (preparation given) was etherified with 3-(4-chlorophenyl)-5-(hydroxymethyl)-1,2,4- oxadiazole using the Mitsunobu reaction, followed by conversion of the imidoyl fluoride function to an amide using KOSiMe3, and N-oxidation using m-ClC6H4C(O)OOH, to give title compound II.

IT 187970-09-8P 187970-75-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of substituted aromatic compds. as inhibitors of

TNF

and PDE IV)

RN 187970-09-8 HCAPLUS

CN Benzoic acid, 4-methoxy-3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]-, methyl ester (9CI) (CA INDEX NAME)

RN 187970-75-8 HCAPLUS

CN Benzoic acid, 4-methoxy-3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

IT 187969-18-2P 187969-57-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted aromatic compds. as inhibitors of TNF and PDE

IV) RN

187969-18-2 HCAPLUS

CN Benzamide, N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-methoxy-3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

RN 187969-57-9 HCAPLUS

CN Benzamide, N-(3,5-dichloro-4-pyridinyl)-4-methoxy-3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

- L5 ANSWER 5 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 1996:743723 HCAPLUS
- DN 126:18874
- TI Preparation of benzimidazoles as modulators of the GABAA receptor complex
- IN Teuber, Lene; Waetjen, Frank; Fukuda, Yoshimasa; Ushiroda, Osamu; Sasaki,
- PA Neurosearch A/S, Den.; Meiji Seika Kaisha, Ltd.
- SO PCT Int. Appl., 55 pp.
 - CODEN: PIXXD2
- DT Patent
- LA English

FAN.	CNT	3																
	PAT	ENT I	NO.							j	APPL.	ICAT:	ION 1	<i>1</i> 0.		D?	ATE	
PI	WO	9633	 194			A1		1996	1024	1	WO 19	996-1	EP160	06		19	9960	417 <
		W:	AL,	AM,	AT,	ΑU,	AZ,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DE,	DK,	EE,
			ES,	FI,	GB,	GE,	HU,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LK,	LR,	ьs,	LT,
			LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,
			SG,	SI									5.11	70		ED.	CD	CD
		RW:	ΚE,	LS,	MW,	SD,	SZ,	ŪG,	AT,	BE,	CH,	DE,	DK,	ES,	rı,	FR,	GB,	GR,
			ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN	417 /
	CA	2218	493			AA		1996	1024		CAI	996-	2218	493		1	9960	417 <
	AU	9656	891			A 1		1996	1107		AU 1	996-	5689	1		1	9960	417 <
	AU	6959	57			В2		1998	0827							-		417 -
	EP	8216	84			A1		1998	0204		EP 1	996-	9149	32		1	9960	417 <
	EP	8216	84			B1		2001	1205									
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
						FI												417 4
		1182									CN 1	996-	1934	19		1	9960	417 <
	CN	1072	669													_		435
		1150				Т2			0202		JP. 1	996-	5314	64		1	9960	417 <
		3342																417 4
	RU	2135	493								RU 1	997-	1191	7,3		1	9960	417 <
		9608							1130									417 <
	CZ	2875	45			В6		2000	1213		CZ 1	997-	3292			1	9960	41/

	010	1 2 2			_		2001	1015	70.07		006	9149	22		1 (99604	117	
	AT 210	132			E			1215		_								
	EP 116	4134		•	A1		2001	1219	E	2	001-	1124	76		19	99604	117	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, C	R,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	FI															
	SK 282	425			В6		2002	0107	SI	(1	997-	1399)			99604		
	PL 183	853			В1		2002	0731	PI	1	996-	3228	192		19	99604	117	
	EE 431	0			В1		2004	0615	E	E 1	997-	283			19	99604	117	
	CA 221	7601			AΑ		1996	1024	C.F	1	996-	2217	601		19	99604	119	<
	CA 221	7601			С		2002	0416										
	CN 118	2426			Α		1998	0520	CN	J 1	996-	1934	20		19	99604	119	<
	NO 970	4844			Α		1997	1216	NO	1	997-	4844	ļ		19	99710	020	<
	NO 314	504			В1		2003	0331										
	US 592	2724			Α		1999	0713	បន	3 1	998-	9450	23			99802		<
	HK 101	5674			A1		2002	1011	HI	1	998-	1111	.56		1	99810	009	
PRAI	DK 199	5-460	1		Α		1995	0421										
	EP 199	6-914	932		A3		1996	0417										
	WO 199	6-EP1	606		W		1996	0417										
os	MARPAT	126:	1887	4														
GI																		

$$R^2$$
 N
 R^3
 I
 R^4
 $R^$

The title compds. [I; R1, R2 = H, (un) substituted furanyl, isoxazolyl; R3 = II (wherein A, B, D = each CH, or one or two of A, B and D = N and the others are CH; R4 = (un) substituted Ph, benzimidazolyl, or monocyclic heteroaryl)], useful for the treatment of various CNS disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders and memory disorders, were prepared Thus, cyclization of N-[3-(1-imidazolyl)phenyl]-2-amino-4-(3-furanyl)aniline with HCOOH afforded 84% I [R1 = 3-furanyl; R2 = H; A, B, D = CH; R4 = 1-imidazolyl] which showed IC50 of 0.4 nM against the specific binding of 3H-FNM.

IT 184097-27-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzimidazoles as modulators of the GABAA receptor complex)

RN 184097-27-6 HCAPLUS

CN 1H-Benzimidazole, 5-(3-furanyl)-1-[3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1996:580566 HCAPLUS

DN 125:300997

TI Benzimidazole compounds useful as benzodiazepine receptor ligands

IN Teuber, Lene; Axelsson, Oskar; Watjen, Frank

PA Neurosearch A/s, Den.; Meiji Seika Kaisha, Ltd.

SO U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 207,774, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN. CNT 2

FAN.	CNT 2 PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5554630 ZA 9402079	- - А А	19960910 19941024	US 1995-410572 ZA 1994-2079	19950324 < 19940324 <
	US 5554632	Α	19960910	US 1994-352585	19941209 <
PRAI	DK 1993-337 DK 1993-1055	A A	19930324 19930921		
	US 1994-207774	B2	19940308		
OS GT	MARPAT 125:300997				

- The invention discloses title compds. I [R3 = certain (un) substituted AB (hetero)aryl groups; R4 = H, NH2, NO2, cyano, halo, acylamino, (un) substituted aryl; or R4 forms bridges to aryl ring of R3; R6, R7 = H, halo, NH2, NO2, cyano, acylamino, CF3, (un) substituted aryl; or R6 and R7 form certain optionally heteroatom-containing bridges] and their pharmaceutically acceptable salts, as well as the medical use of a broader class of 1-arylbenzimidazoles, including I. The compds. are useful for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders, and memory disorders. For example, 2-amino-3'-iodo-4-(trifluoromethyl)diphenylamine (preparation given) underwent cyclocondensation with formic acid at reflux, and coupling with imidazole in the presence of K2CO3 and CuBr at 200°, to give title compound II [R6 = CF3]. In an in-vivo test for inhibition of [3H]-flunitrazepam specific binding to mouse forebrain GABAA receptors, II [R6 = CF3] had an ED50 of 7.3 mg/kg i.p., and II [R6 = Me] had an ED50 of 0.8 mg/kg i.p.
- IT 159725-07-2P 159725-08-3P 182630-95-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of benzimidazole derivs. as benzodiazepine receptor ligands)

RN 159725-07-2 HCAPLUS

CN 1H-Benzimidazole, 5-(1,1-dimethylethyl)-1-[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 159725-08-3 HCAPLUS

CN 1H-Benzimidazole, 5-(1,1-dimethylethyl)-1-[3-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

RN 182630-95-1 HCAPLUS

CN 1H-Benzimidazole, 5-(1,1-dimethylethyl)-1-[3-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 7 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:570765 HCAPLUS

DN 122:314571

TI Preparation of substituted heterocycle compounds enhancing antitumor activity of other cytotoxic agents

IN Arnold, Lee D.; Coe, Jotham W.; Kaneko, Takushi; Moyer, Mikel P.

PA. Pfizer Inc., USA

SO PCT Int. Appl., 157 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. APPLICATION NO. DATE KIND DATE ______ _____ ____ _____ 19940228 <--19941013 WO 1994-US1724 A1 PΙ WO 9422846 W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE 19941001 FI 1994-1452 19940329 <--FI 9401452 Α

PRAI US 1993-40233 A 19930330 OS MARPAT 122:314571 GI

Title compds. R100R101R102N (R100 = Q1A1B1Y2(CH2)mCH(Z1)Y1, Q10(CH2)2C(OH)(R103)CH2, substituted cycloalkyl, etc., wherein R103 = C1-4 alkyl, Y1 = O, H2C, (CH2)2, bond; Z1 = H, HO, F3C, O2N, C1-4 alkoxy; Y2 = O, S, HN, MeN, bond, CONH, NHCO; B1 = bond, substituted Ph; A1 = bond, C1-4 alkylene, O, S, HN; Q1 = (substituted) heterocyclyl, (substituted) aryl; R100, R101 = H, C1-4 alkyl, C2-4 alkenyl-Ph, C1-4 alkyl-substituted Ph; R102 = H, (substituted) aryl, (substituted) heterocyclyl, etc.) and a salt thereof, useful for inhibiting P-glycoprotein in a mammal and as anticancer agents (no data), are prepared 2-Methyl-7-(2-oxiranylmethoxy)benzothiazole and 1-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazine were refluxed to give the title compound I.

IT 163296-43-3P 163296-44-4P 163296-45-5P 163296-93-3P 163296-97-7P 163296-98-8P 163297-77-6P 163297-78-7P 163297-79-8P 163297-82-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted heterocycle compds. enhancing antitumor activity of other cytotoxic agents)

RN 163296-43-3 HCAPLUS

CN Piperazine, 1-(diphenylmethyl)-4-[3-[2-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]propyl]- (9CI) (CA INDEX NAME)

RN 163296-44-4 HCAPLUS

CN Piperazine, 1-(diphenylmethyl)-4-[3-[2-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]propyl]- (9CI) (CA INDEX NAME)

Ph₂CH N (CH₂)₃-0

RN 163296-45-5 HCAPLUS

CN Piperazine, 1-(diphenylmethyl)-4-[3-[2-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]propyl]- (9CI) (CA INDEX NAME)

Ph₂CH N (CH₂)₃-0

RN 163296-93-3 HCAPLUS

CN 1-Piperazineethanol, 4-(diphenylmethyl)- α -[[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]methyl]- (9CI) (CA INDEX NAME)

OH CHPh2

O-CH2-CH-CH2-N

RN 163296-97-7 HCAPLUS

CN 1-Piperidineethanol, 4-(diphenylmethyl)- α -[[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]methyl]- (9CI) (CA INDEX NAME)

OH CHPh2

N-O

O-CH2-CH-CH2

N-O

RN 163296-98-8 HCAPLUS

CN Pyridine, 3-[5-[3-[4-(diphenylmethyl)-1-piperidinyl]propoxy]phenyl]-

1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 163297-77-6 HCAPLUS

CN 2-Propanol, 1-[methyl(1-naphthalenylmethyl)amino]-3-[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]- (9CI) (CA INDEX NAME)

RN 163297-78-7 HCAPLUS

CN 2-Propanol, 1-[[1-(1-naphthalenyl)ethyl]amino]-3-[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]- (9CI) (CA INDEX NAME)

RN 163297-79-8 HCAPLUS
CN 2-Propanol, 1-[[(1,2,3,4,4a,8a-hexahydro-7-methoxy-1naphthalenyl)methyl]amino]-3-[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5yl]phenoxy]- (9CI) (CA INDEX NAME)

RN 163297-82-3 HCAPLUS CN 1-Piperidineethanol, 4-(hydroxydiphenylmethyl)- α -[[3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenoxy]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Ph} \\ & \text{OH} \\ & \text{N-O} \\ \end{array}$$

163299-12-5P 163299-13-6P ΙT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of substituted heterocycle compds. enhancing antitumor activity of other cytotoxic agents)

163299-12-5 HCAPLUS RN

Pyridine, 3-[5-(3-methoxyphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX CN NAME)

RN 163299-13-6 HCAPLUS

Phenol, 3-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME) CN

ANSWER 8 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN L5

1995:252476 HCAPLUS AN

DN 122:31527

Preparation of benzimidazole derivatives for the treatment of central ΤI nervous system disorders.

Axelsson, Oskar; Teuber, Lene; Watjen, Frank IN

Neurosearch A/S, Den.; Meiji Seika Kaisha Ltd. PA

Eur. Pat. Appl., 35 pp. SO CODEN: EPXXDW

DTPatent

English LΑ

FAN.	CNT Z				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					- ·
ΡI	EP 616807	A1	19940928	EP 1994-610012	19940311 <
	EP 616807	B1	19980708		
	R: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LI, LU	, MC, NL, PT, SE
	AU 9457521	A1	19940929	AU 1994-57521	19940303 <

10/699563

	AU 675484	В2	19970206		
	AT 168007	E	19980715	АТ 1994-610012	19940311 <
	ES 2119124	T3	19981001	ES 1994-610012	19940311 <
	CA 2119511	AA	19940925	CA 1994-2119511	19940321 <
			20020716	CA 1994 2119311	13310011
	CA 2119511	С	20020/16		
	NO 9401052	Α	19940926	NO 1994-1052	19940323 <
	CN 1099391	Α	19950301	CN 1994-103348	19940323 <
	CN 1057088	В	20001004		
	FI 9401378	Α	19940925	FI 1994-1378	19940324 <
	FI 113651	B1	20040531		
	ZA 9402079	Α	19941024	ZA 1994-2079	19940324 <
	JP 07002838	A2	19950106	JP 1994-78094	19940324 <
	JP 3466265	B2	20031110		
PRAI	DK 1993-337	Α	19930324		
	DK 1993-1055	Α	19930921		
os	MARPAT 122:31527				
GT					

Benzimidazole compds. I (R3 = substituted Ph, pyridinyl, etc.; R4 = H, AΒ amino, nitro, etc.; R6, R7 = H, halo, cyano, nitro, etc.) were disclosed for the treatment of various central nervous system disorders such as epilepsy and other convulsive disorders, anxiety, sleep disorders and memory disorders.

159725-07-2 159725-08-3 IT

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of benzimidazole derivs. GABA receptor antagonists or agonists) 159725-07-2 HCAPLUS

RN1H-Benzimidazole, 5-(1,1-dimethylethyl)-1-[3-(3-pyridinyl)-1,2,4-CN

oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

159725-08-3 HCAPLUS RN

1H-Benzimidazole, 5-(1,1-dimethylethyl)-1-[3-[3-(4-pyridinyl)-1,2,4-4]CN oxadiazol-5-yl]phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 9 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1988:21823 HCAPLUS

DN 108:21823

TI Synthesis and transformations of some pyrido[2,3-d]pyrimidines

AU Kocevar, Marijan; Koller, Joze; Stanovnik, Branko; Tisler, Miha

CS Dep. Chem., E. Kardelj Univ., Ljubljana, YU-61000, Yugoslavia

SO Monatshefte fuer Chemie (1987), 118(3), 399-407 CODEN: MOCMB7; ISSN: 0026-9247

DT Journal

LA English

OS CASREACT 108:21823

GI

AB Pyridopyrimidines, e.g., I, and their N-oxides, e.g., II, were prepared from 2-amino-3-cyanopyridine. I and II readily undergo ring cleavage to various pyridine derivs.

IT 82216-41-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 82216-41-9 HCAPLUS

CN 2-Pyridinamine, 3-(5-phenyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)

L5 ANSWER 10 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1985:487815 HCAPLUS

DN 103:87815

10/699563

TI Antiparasitic agents. 6. Synthesis and anthelmintic activities of novel isothiocyanatophenyl-1,2,4-oxadiazoles

AU Haugwitz, R. D.; Martinez, A. J.; Venslavsky, J.; Angel, R. G.; Maurer, B. V.; Jacobs, G. A.; Narayanan, V. L.; Cruthers, L. R.; Szanto, J.

CS Squibb Inst. Med. Res., Princeton, NJ, 08540, USA

SO Journal of Medicinal Chemistry (1985), 28(9), 1234-41 CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LA English

OS CASREACT 103:87815

GI

$$\begin{array}{c|c} N & & \\ & & \\ & N & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

The synthesis and anthelmintic activities of 31 3- and 5-(isothiocyanatophenyl)-1,2,4-oxadiazoles were given. In the primary anthelmintic screen, 3-(4-isothiocyanatophenyl)-1,2,4-oxadiazole (I) showed 100% nematocidal activity and 3-(2-furanyl)-5-(4-isothiocyanatophenyl)-1,2,4-oxadiazole (II), 3-(2-furanyl)-5-(2-chloro-4-isothiocyanatophenyl)-1,2,4-oxadiazole, and 3-(2-furanyl)-5-(4-chloro-3-isothiocyanatophenyl)-1,2,4-oxadiazole showed 100% taeniacidal activity when administered orally to mice. The two most active members of this series, I and II were active against gastrointestinal nematodes of sheep at 100 mg/kg. I was also active against hookworms in dogs at a single oral dose of 200 mg/kg.

IT 96898-70-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and nematocidal activity of)

RN 96898-70-3 HCAPLUS

CN Pyridine, 2-[5-(4-isothiocyanatophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

$$N - 0$$
 $N = c = s$

IT 96898-94-1

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with thiophosgene)

RN 96898-94-1 HCAPLUS

CN Benzenamine, 4-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 11 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1985:45876 HCAPLUS

DN 102:45876

TI Synthesis of 4-aminopyrimidines from 1,2,4-oxadiazoles. I. New general method for the preparation of 4-aminoquinazolines and their hetero analogs

AU Korbonits, Dezso; Kiss, Pal; Simon, Kalman; Kolonits, Pal

CS Chinoin Pharm. Chem. Werke, Budapest, H-1325, Hung.

SO Chemische Berichte (1984), 117(11), 3183-93 CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

OS CASREACT 102:45876

GI For diagram(s), see printed CA Issue.

AB Catalytic hydrogenation of 1,2,4-oxadiazoles I [R = H; R1 = (un)substituted alkyl, Ph; A = benzene, pyrazole, 1,2,3-triazole, pyridine, pyrimidine residue] gave 2-amino-N-acylarenecarboxamidines II which were dehydrated to give condensed 4-aminopyrimidines III. The corresponding secondary amines (I, A = benzene residue; R = Et, R1 = Me; R = R1 = Me) gave 4-iminoquinazolines IV. Reduction and dehydration of I (A = benzene residue, R = Ac, Bz, R1 = Me, Ph) gave, via a somewhat different pathway, 4-(acylamino)quinazolines V (R2 = Me, Ph).

IT 82216-41-9

RL: RCT (Reactant); RACT (Reactant or reagent) (hydrogenolysis and cyclization of)

RN 82216-41-9 HCAPLUS

CN 2-Pyridinamine, 3-(5-phenyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)

- L5 ANSWER 12 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 1984:6403 HCAPLUS
- DN 100:6403
- TI Synthesis of 5-aryl-3-(4-pyridyl)-1,2,4-oxadiazoles
- AU Brana, Miguel F.; Castellano, Jose M.; Yunta, Maria J. R.
- CS Fac. Cienc. Quim., Univ. Complutense, Madrid, Spain
- SO Journal of Heterocyclic Chemistry (1983), 20(5), 1403-5 CODEN: JHTCAD; ISSN: 0022-152X
- DT Journal
- LA English
- OS CASREACT 100:6403

GI

AB Treating pyridylmethylbenzamides I (R = 2-, 3-, 4-Me, 4-MeO; R1 = H, Me) with NOCl in CHCl3 gave 12-49% oxadiazoles II.

IT 88059-52-3P 88059-53-4P 88059-54-5P

88059-55-6P 88085-28-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 88059-52-3 HCAPLUS

CN Pyridine, 4-[5-(3,5-dimethylphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 88059-53-4 HCAPLUS

CN Pyridine, 4-[5-(4-methylphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 88059-54-5 HCAPLUS

CN Pyridine, 4-[5-(3-methylphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 88059-55-6 HCAPLUS

CN Pyridine, 4-[5-(2-methylphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 88085-28-3 HCAPLUS

CN Pyridine, 4-[5-(4-methoxyphenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 13 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1982:423676 HCAPLUS

DN 97:23676

TI Ring transformation of 3-(2-aminoaryl)-1,2,4-oxadiazoles into 3-acylaminoindazoles; extension of the Boulton-Katritzy scheme

AU Korbonits, Dezso; Kanzel-Szoboda, Ida; Horvath, Karoly

CS Chinoin Pharm. Chem. Works, Budapest, H-1325, Hung.

Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1982), (3), 759-66 CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

OS CASREACT 97:23676

GΙ

Thirty-four oxadiazoles I (R = H, alkyl, acyl, aryl; R1 = alkyl, aryl) underwent ring transformation to the corresponding 3-(acylamino)indazoles II in high yield on heating in DMF at 150° or on melting. Seven 3-(2-aminoheteroaryl)-1,2,4-oxadiazoles reacted similarly. Depending on the reaction conditions and on R, the rearrangement of I to II follows 2 different mechanisms but is invariably promoted by electron-attracting substituents at C-5. Rate consts. for many of the rearrangements are

10/699563

reported.

IT 82216-41-9P 82216-42-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and rearrangement of, to (acylamino)pyridopyrazole)

RN 82216-41-9 HCAPLUS

CN 2-Pyridinamine, 3-(5-phenyl-1,2,4-oxadiazol-3-yl)- (9CI) (CA INDEX NAME)

RN 82216-42-0 HCAPLUS

CN Acetamide, N-[3-(5-phenyl-1,2,4-oxadiazol-3-yl)-2-pyridinyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 14 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

Ι

AN 1981:550674 HCAPLUS

DN 95:150674

TI 1,2,4-Oxadiazole derivatives

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 56065881	A2	19810603	JP 1979-142540	19791101 <
PRAI JP 1979-142540	Α	19791101		
GI				

AB Thirty-one 1,2,4-oxadiazole derivs. I (R = H, alkyl, alkenyl, etc.; R1 = H, halo, NO2, NH2, OH, etc.; R2 = H, alkyl; R3 = OH, alkoxy, hydroxyalkoxy, etc.) were prepared by, e.g., reaction of RCO2H derivs. with R3COCHR2C6H3R1C(:NOH)NH2 followed by intramol. cyclodehydration of the resulting R3COCHR2C6H3R1C(NH2):NO2CR. I had antiinflammatory, analgesic, and antipyretic activities (no data). Thus, 0.51 g AcCl reacted with 1.4 g 4-EtO2CCHMeC6H4C(:NOH)NH2 in THF containing Et3N to give 1.65 g 4-EtO2CCHMeC6H4C(NH2):NOAc, which was refluxed in PhMe 10 h to give 1.2 g 3-[4-[α-(ethoxycarbonyl)ethyl]phenyl]-5-methyl-1,2,4-oxadiazole.

IT 79148-27-9P 79148-35-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 79148-27-9 HCAPLUS

CN Benzeneacetic acid, α-methyl-4-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

RN 79148-35-9 HCAPLUS

CN Benzeneacetic acid, α-methyl-4-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 15 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1980:130618 HCAPLUS

DN 92:130618

TI Stilbene compounds

IN Erckel, Ruediger; Roesch, Guenther

PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger. Offen., 15 pp. Addn. to Ger. Offen. 2,709,924. CODEN: GWXXBX

DT Patent

LA German

FAN. CNT 1

LAU.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2820322 ES 480216	Al Al	19791115 19791016	DE 1978-2820322 ES 1979-480216	19780510 < 19790504 <

	EP 7392	=	1 1980		1979-101404	19790508	<
	EP 7392	_	1 1983				
	R: AT,	BE, CH, DE		IT, NL, SE	<u> </u>	10700500	,
	AT 3715	I	1983		1979-101404	19790508	
	DK 7901915	1	1979	1111 DK	1979-1915	19790509	
	AU 7946883	7	1 1979	1115 AU	1979-46883	19790509	<
				0506			
	AU 521927				1979-2845	19790509	<
	BR 7902845	Ĭ			1979-55810	19790509	
	JP 54151977	1		1100		19790509	
	ZA 7902227	1		•	1979-2227	19790509	
	CA 1111036	1	1981	1020	1979-327257		
	us 4310665	j	1982	0112 US	1980-191000	19800926	<
PRAI	DE 1978-2820	1322	1978	0510			
PRAI	US 1979-3668		-	0507			
	• • • • •			0508			
	EP 1979-1014	404	1979	,0300			
GI							

$$R^1$$
 $CH = CH$
 R^2
 R

AB Stilbene derivs. (I; R,R1 = H, F, Cl, Ph, lower alkyl, lower alkoxy, lower dialkylamino, lower trialkylammonium, acylamino, CO2H or SO3H derivs.; RR1 = phenylene, lower alkylene, 1,3-dioxapropylene; R2 = heterocyclyl-1,2,4-oxadiazolyl) with fluorescence maximum 428-483 nm (DMF) are prepared for use as whiteners for plastics and synthetic fibers. Thus, 4'-benzoxazol-2-ylstilbene-4-carbonyl chloride [4763-80-8] was added to pyridine-4-amidoxime [1594-57-6] in DMF, the reaction mixture heated, refluxed, and filtered to give I(R = R1 = H, R2 = 3-(4-pyridyl)-1,2,4-oxadiazol-5-yl) [73097-43-5] with fluorescence maximum (DMF) 432 nm.

CN Benzoxazole, 5-methyl-2-[4-[2-[4-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & \\ \hline \\ O & \\ \hline \\ O-N & \\ \hline \\ N \\ \end{array}$$

RN 73097-34-4 HCAPLUS
CN Benzoxazole, 2-[4-[2-[4-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

RN 73097-35-5 HCAPLUS

CN Benzoxazole, 5-methyl-2-[4-[2-[4-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{We} & \text{O-N} & \text{N} \\ \hline \end{array}$$

RN 73097-38-8 HCAPLUS

CN Benzoxazole, 2-[4-[2-[4-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

RN 73097-39-9 HCAPLUS

CN Benzoxazole, 5-methyl-2-[4-[2-[4-[3-(2-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

RN 73097-43-5 HCAPLUS

CN Benzoxazole, 2-[4-[2-[4-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]ethenyl]phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 16 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1979:439392 HCAPLUS

DN 91:39392

TI A synthesis of 3-hydroxyiminoacyl-4-quinazolones and transformation into 1,2,4-oxadiazoles

AU Nagahara, Katsuhiko; Takada, Atsusbi

CS Sch. Pharm. Sci., Kitasato Univ., Tokyo, 108, Japan

SO Heterocycles (1979), 12(2), 239-42 CODEN: HTCYAM; ISSN: 0385-5414

DT Journal

LA English

OS CASREACT 91:39392

GΙ

Quinazolones I (R = H, Cl; Rl = Ph, p-tolyl, 4-ClC6H4, 4-pyridyl; R2 = Me, Et) were heated with HCl in EtOH to yield oxadiazoles II. A mixture of I (R = H, Rl = Ph, R2 = Me) and HCl in EtOH was refluxed 8 h to give 5-(2-aminophenyl)-3-phenyl-1,2,4-oxadiazole. The cyclocondensation of anthranilamides III with R2C(OEt)3(R2 = Me, Et) gave I.

IT 70722-58-6P 70722-59-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 70722-58-6 HCAPLUS

CN Benzenamine, 2-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

RN 70722-59-7 HCAPLUS

CN Benzenamine, 4-chloro-2-[3-(4-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 17 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1978:599084 HCAPLUS

DN 89:199084

TI Azo dyes containing sulfonic acid groups and oxadiazolyl residues

IN Kurtz, Walter; Dehnert, Johannes

PA BASF A.-G., Fed. Rep. Ger.

SO Ger. Offen., 38 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO	o. KIND	DATE	APPLICATION NO.	DATE
PI DE 27096	60 A1	19780907	DE 1977-2709660	19770305 <
US 42038	94 A	19800520	US 1978-879753	19780221 <
FR 23824	83 A1	19780929	FR 1978-5839	19780301 <
FR 23824	83 B1	19800307		
CH 63433	9 A	19830131	CH 1978-2209	19780301 <
GB 15955	16 A	19810812	GB 1978-8499	19780303 <
JP 53110	627 A2	19780927	JP 1978-24608	19780306 <
PRAI DE 1977-	2709660 A	19770305		
GT				

$$N = NR^3$$
 $N = NR^3$
 $N = NR^3$

AB Fast yellow to red dyes (I) for polyamide fibers are prepared, where R = H, Cl, Br, or HO3S, Rl = H, Cl, Br, NO2, Me, or CF3, R2 = H or substituted alkyl, benzyl, phenethyl, cyclohexyl, Ph, naphthyl, pyridyl, thienyl, or furyl, R3 = aromatic, heterocyclic, or acetoacetarylide coupler residue, and n = 1, 2, or 3. Thus, diazotization of II [68117-87-3] and coupling with MeCOCH2CONHC6H3(OMe)2-2,4 [16715-79-0] gave III [68117-88-4], a yellow powder which dyed polyamide fibers or wool light- and wetfast greenish yellow shades.

IT 68117-85-1

RL: USES (Uses)

(coupling of diazotized, with aminohydroxynaphthalenesulfonic acid)

RN 68117-85-1 HCAPLUS

CN Benzenamine, 2-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]- (9CI) (CA INDEX NAME)

IT 68117-86-2P

RL: PREP (Preparation)

(manufacture of, for dyeing polyamide fibers)

RN 68117-86-2 HCAPLUS

CN 2-Naphthalenesulfonic acid, 6-amino-4-hydroxy-5-[[2-[3-(3-pyridinyl)-1,2,4-oxadiazol-5-yl]phenyl]azo]-, monosodium salt (9CI) (CA INDEX NAME)

Na

L5 ANSWER 18 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1978:41594 HCAPLUS

DN 88:41594

TI A contribution to the kinetics of dissolution of some modern drugs

AU Csontos, A.; Racz, I.; Gyarmati, L.

CS Inst. Pharm., Semmelweis Univ. Med. Sci., Budapest, Hung.

SO Pharmazie (1977), 32(8-9), 498-500 CODEN: PHARAT; ISSN: 0031-7144

DT Journal

LA English

GI

AB Dissoln. kinetics of prenylamine [390-64-7], acetazolamide [59-66-5], RJ-64 (I) [27199-40-2], carbutamide [339-43-5], and drotaverine (II) [14009-24-6] tablets (without additives) was examined in aqueous medium and in aqueous Tween 20 [9005-64-5] solution at concns. above the

critical micellar concentration. The amount of drug dissolved within the unit of time

decreased in case of I and II in direct proportion to the concentration of the surfactant, whereas for other drugs an increase occurred. Rate consts. of dissoln. (or saturation) of the drugs in aqueous and aqueous micellar solns.

were

nearly identical.

IT 27199-40-2

RL: PRP (Properties)

(solution rate of)

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 19 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1977:589362 HCAPLUS

DN 87:189362

TI Data referring to the dissolution kinetics of some up-to-date drugs

AU Csontos, Andras; Racz, Istvan; Gyarmati, Laszlo

CS Gyogyszertani Intez., Semmelweis Orvostud. Egy., Budapest, Hung.

SO Acta Pharmaceutica Hungarica (1977), 47(4), 155-61 CODEN: APHGAO; ISSN: 0001-6659

DT Journal

LA Hungarian

GI

AB The dissoln. kinetics of RJ-64 (I) [27199-40-2]; drotaverin [14009-24-6]; prenylamine [390-64-7]; carbutamide [339-43-5]; and acetazolamide [59-66-5] in H2O solns., and in aqueous solns. of surfactants (Tween 20 [9005-64-5]; polyoxyethylene sorbitan monolaurate [9005-64-5]) are described. In all solns., the saturation process was kinetically excellent. For drotaverin and I, the amts. of the dissolving substance decreased in equal proportions with the surfactant concns. in contrast to results observed with the rest of the tested drugs.

IT 27199-40-2

RL: PRP (Properties)

(solution rate of, surfactant effects on)

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

$$N - 0$$

10/699563

L5 ANSWER 20 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1976:559934 HCAPLUS

DN 85:159934

TI Achievements of pharmaceutical research in the field of 1,2,4-oxadiazoles

AU Harsanyi, Kalman

CS Chinoin Gyogyszer es Vegyeszeti Termekek Gyara, Budapest, Hung.

SO Magyar Kemikusok Lapja (1976), 31(2), 95-7 CODEN: MGKLAL; ISSN: 0025-0163

DT Journal; General Review

LA Hungarian

AB A review of the author's work since 1961 leading to the antitussive Prenoxdiazine and the muscle relaxant Udarnol.

IT 27199-40-2

RL: RCT (Reactant); RACT (Reactant or reagent))

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 21 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1976:516469 HCAPLUS

DN 85:116469

TI The metabolism of 3-(4-pyridy1)-5-(2-chloropheny1)-1,2,4-oxadiazole in the

AU Gyarmati, Laszlo; Csontos, Andras; Racz, Istvan; Satori, Eva; Harsanyi, Kalman

CS Inst. Pharm., Semmelweis Med. Univ., Budapest, Hung.

SO Pharmazie (1976), 31(4), 246-7 CODEN: PHARAT; ISSN: 0031-7144

DT Journal

LA German

GI

AB 3-(4-Pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole (RJ-64)(I) [
27199-40-2] given orally to rats was metabolized to
o-chlorobenzoic acid [118-91-2], o-chlorohippuric acid [16555-60-5], and
o-chlorobenzoylisonicotinic acid amidoxime [59936-34-4] which were
isolated from urine and feces. Two other unidentified metabolites were
observed only in the urine.

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

- L5 ANSWER 22 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 1976:471952 HCAPLUS
- DN 85:71952
- TI Contributory data to the metabolism of a new muscle relaxant RJ 64, 3-(4-pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole
- AU Gyarmati, Laszlo; Csontos, Andras; Racz, Istvan; Satory, Eva; Harsanyi, Kalman
- CS Gyogyszereszeti Intez., Semmelweis Orvostud. Egy., Budapest, Hung.
- SO Acta Pharmaceutica Hungarica (1976), 46(2), 64-72 CODEN: APHGAO; ISSN: 0001-6659
- DT Journal
- LA Hungarian

GΙ

$$N \longrightarrow N \longrightarrow C1$$

- AB When RJ 64 (I) [27199-40-2] was administered orally to rats at 500 mg/kg, unchanged I, o-chlorobenzoic acid [118-91-2], o-chlorobenzoylisonicotinic acid amidoxime [30063-80-0] and o-chlorohippuric acid [16555-60-5] were detected in urine and feces. Two addnl., unidentified metabolites were also detected, one of them only in urine.

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

$$\bigcap_{N \to \infty} \bigcap_{N \to 0} \bigcap_{N \to \infty} \bigcap_{N$$

L5 ANSWER 23 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1971:436043 HCAPLUS

DN 75:36043

TI 4-(1,2,4-Oxadiazol-3- or -5-yl)pyridinium salts for lowering blood sugar levels

IN Bauer, Victor John; Fanshawe, William J.; Safir, Sidney R.

PA American Cyanamid Co.

SO U.S., 5 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

ENT NO.	KIND	DATE	APPLICATION NO.	DATE
3574842	Α	19710413	US 1969-875529	19691110 <
1969-875529	Α	19691110		
	ENT NO. 3574842 1969-875529	3574842 A	3574842 A 19710413	3574842 A 19710413 US 1969-875529

AB The title compds. were prepared by reaction of an amidoxime with an anhydride or an orthoformate followed by treatment of the oxadiazolylpyridine product with an alkyl halide. Thus, isonicotinamidoxime and Ac2O were warmed to give 4-(5-methyl-1,2,4-oxadiazol-3-yl)pyridine (I). I was heated with MeCl in a bomb to give 1-methyl-4-(5-methyl-1,2,4-oxadiazol-3-yl)pyridinium chloride. Other analogs (27) were similarly prepared

IT 22926-71-2P 22926-72-3P

RN 22926-71-2 HCAPLUS

CN Pyridine, 4-(5-phenyl-1,2,4-oxadiazol-3-yl)- (8CI, 9CI) (CA INDEX NAME)

RN 22926-72-3 HCAPLUS

CN Pyridinium, 1-methyl-4-(5-phenyl-1,2,4-oxadiazol-3-yl)-, chloride (8CI) (CA INDEX NAME)

● cl-

L5 ANSWER 24 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1971:51924 HCAPLUS

DN 74:51924

TI Pharmacology of a new centrally acting muscle relaxant (RJ-64) [3-(4-pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole]

AU Leszkovszky, Gyorgy; Tardos, Laszlo

CS Pharmacol. Res. Lab., Chinoin Pharm. Chem. Works, Budapest, Hung.

SO Arzneimittel-Forschung (1970), 20(11), 1778-83 CODEN: ARZNAD; ISSN: 0004-4172

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB 3-(4-Pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole (I) has a central muscle relaxant effect similar to that of chlorzoxazone. It inhibited spinal polysynaptic reflexes in rats and cats, reduced muscle strength in mice, and suppressed electroshock- and strychnine-induced seizures in rats and mice. Unlike chlorzoxazone, it inhibited the lethal and convulsive effects of nicotine in mice and, in larger doses, also inhibited the excitatory action of morphine in mice. It was ineffective against oxotremorine and against convulsions induced by leptazol and had no notable sedative, hypnotic, analgesic, hypotensive, or antiinflammatory actions. The oral LD50 in mice was >5 g/kg and in cats >2 g/kg. I acts primarily on the spinal intercalar neurons; by reducing their activity, it decreases the excitability of the motor pathways.

IT 27199-40-2

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmacology of)

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

$$N - 0$$

L5 ANSWER 25 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1971:40840 HCAPLUS

DN 74:40840

TI Relation between chemical structure and pharmacological activity in a

series of central muscle relaxant oxadiazole derivatives

AU Leszkovsky, Gyorgy; Tardos, Laszlo

CS Pharmacol. Res. Lab., Chinoin Pharm. Chem. Works, Budapest, Hung.

SO Acta Physiologica Academiae Scientiarum Hungaricae (1970), 37(3-4), 319-26 CODEN: APACAB; ISSN: 0001-6756

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB 3-(4-Pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole (I) and 34 derivs. were compared for their ability to inhibit strychnine and electroshock convulsions and nicotine toxicity in mice. Only 3-(2-pyridyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole was generally as active as I. 3-(α-Aminobenzyl)-5-(2-chlorophenyl)-1,2,4-oxadiazole inhibited not only nicotine toxicity but also pentetrazole convulsions, which I did not do. Activity of I was reduced, but not completely abolished, by reversing the position of the substituents. Quarternization of the pyridine ring also abolished effectiveness. The Cl atom attached to the N through a C chain containing 3 C atoms in sp2 hybrid state seemed of crucial importance for pharmacol. activity. A further factor necessary for pharmacol. activity seems to be the attachment to the other C atom of the oxadiazole ring of an aromatic group (4-pyridyl or 2-pyridyl) having a N atom and an appropriate electron distribution.

IT 27199-40-2 27199-42-4 27199-45-7 27199-48-0 27199-49-1 27390-37-0 31433-47-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(antispasmodic activity of)

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 27199-42-4 HCAPLUS

CN Pyridine, 2-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 27199-45-7 HCAPLUS

CN Pyridine, 4-[5-(p-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27199-48-0 HCAPLUS

Pyridine, 3-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX CN NAME)

$$N - 0$$

RN27199-49-1 HCAPLUS

CN Pyridine, 3-[5-(p-aminophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX

27390-37-0 HCAPLUS RN

Pyridine, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-2-ethyl- (8CI) (CA CN INDEX NAME)

RN

31433-47-3 HCAPLUS Pyridinium, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-1-methyl-, iodideCN (8CI) (CA INDEX NAME)

• I-

L5 ANSWER 26 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1971:13156 HCAPLUS

DN 74:13156

TI Therapeutic pyridyl-1,2,4-oxadiazoles

IN Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Takacs, Kalman; Bako, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; Vertesy, Csaba

PA Chinoin Gyogyszer- es Vegyeszeti Termekek Gyara Rt.

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

rAN.	CNT I		•		
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 1920037	A	19701112	DE 1969-1920037	19690419 <
	US 3647809	Α	19720307	US 1969-815520	19690408 <
	IL 31990	A1	19740516	IL 1969-31990	19690408 <
	GB 1271302	Α	19720419	GB 1969-1271302	19690414 <
	AT 292727	В	19710910	AT 1969-3754	19690418 <
	AT 292728	В	19710910	AT 1970-8156	19690418 <
	FR 2007529	A 5	19700113	FR 1969-12994	19690424 <
	FR 2007529	B1	19730316		
	CH 540925	Α	19731015	СН 1969-6275	19690424 <
	CH 542232	Α	19731115	СН 1972-14769	19690424 <
	BE 732131	Α	19691001	BE 1969-732131	19690425 <
	NL 6906401	Α	19691028	NL 1969-6401	19690425 <
	NO 124253	В	19720327	NO 1969-1733	19690425 <
	BR 6908381	A 0	19730208	BR 1969-208381	19690425 <
	JP 48024394	B4	19730720	JP 1969-32259	19690425 <
	SE 368576	В	19740708	SE 1969-5909	19690425 <
	CA 954858	A1	19740917	CA 1969-49755	19690425 <
	PL 79435	P	19750630	PL 1969-133199	19690425 <
PRAI	HU 1968-CI796	Α	19680426		

GI For diagram(s), see printed CA Issue.

The antitussive, spasmolytic, local anesthetic, and coronary dilating title compds. (I) were prepared Thus, refluxing II and 0-ClC6H4CO2Et in EtOH 8 hr gave 81.5% I (R = 2-pyridyl, R1 = 0-ClC6H4). Among 31 compds. similarly prepared were I (R and R1 given): 4-pyridyl, p-ClC6H4; o-EtOC6H4, 3-pyridyl; styryl, 4-pyridyl; 3-pyridyl, o-ClC6H4; 4-pyridyl, 4-pyridyl; 4-pyridyl, 3-pyridyl.

IT 27199-40-2P 27199-41-3P 27199-42-4P 27199-45-7P 27199-48-0P 27199-49-1P 27390-37-0P 27390-40-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 27199-40-2 HCAPLUS

CN Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 27199-41-3 HCAPLUS

CN Pyridine, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-, monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 27199-40-2 CMF C13 H8 C1 N3 O

$$\bigcap_{N \to 0}^{C1}$$

CM 2

CRN 74-88-4 CMF C H3 I

H₃C-I

RN 27199-42-4 HCAPLUS

CN Pyridine, 2-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

RN 27199-45-7 HCAPLUS

CN Pyridine, 4-[5-(p-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27199-48-0 HCAPLUS

CN Pyridine, 3-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

$$N$$
 N
 N
 N
 N

RN 27199-49-1 HCAPLUS

CN Pyridine, 3-[5-(p-aminophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27390-37-0 HCAPLUS

CN Pyridine, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-2-ethyl- (8CI) (CA INDEX NAME)

RN 27390-40-5 HCAPLUS

CN Phenol, o-[3-(2-ethyl-4-pyridyl)-1,2,4-oxadiazol-5-yl]- (8CI) (CA INDEX NAME)

ANSWER 27 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

L5

```
AN
     1970:100719 HCAPLUS
DN
     72:100719
     Pyridyloxadiazole derivatives
ΤI
     Harsanyi, Kalman; Reiter, Jozsef; Korbonits, Dezso; Gonczi, Csaba; Takacs,
TN
     Kalman; Bako, Erzsebet; Leszkovszky, Gyorgy; Tardos, Laszlo; Vertessy,
PA
     Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt
SO
     Hung., 24 pp.
     CODEN: HUXXAT
DT
     Patent
     Hungarian
LA
FAN.CNT 1
                                                 APPLICATION NO.
     PATENT NO.
                           KIND
                                   DATE
                                                                           DATE
PΙ
     HU 156976
                                   19700131
                                                 HU
                                                                           19680426 <--
     FR 2007529
                                                 FR
     For diagram(s), see printed CA Issue.
GΙ
     A mixture of 0.1 mole iso-nicotinamide oxime (I) and 0.2 mole o-ClC6H4CO2Et
AB
     in 60 ml absolute EtOH was refluxed 30 min, 0.1 mole NaOEt in 40 ml absolute
EtOH
     added, and the mixture refluxed 8 hr to give 83% II (R = 4-pyridyl, R1 =
     o-ClC6H4) (IIa) m. 111° (96% EtOH); meth-iodide m. 247° (80%
     EtOH). IIa was also obtained by treating I with o-ClC6H4COCl-pyridine,
     (o-ClC6H4CO)20-C6H6, by heating I with o-ClC6H4CHO or o-ClC6H4CH(OMe)2,
     and with o-ClC6H4-COCl in alkaline medium, followed by heating the
     isonicotinamide oxime o-chlorobenzoate 1 hr at 130°. Similarly
     prepared were II (R, R1, and m.p. given): 2-pyridyl, o-ClC6H4, 93-5°
     (EtOH); o-ClC6H4, 4-pyridyl, 138-40° (EtOH) methiodide m.
     231-2° (80% EtOH)]; 4-pyridyl, p-ClC6H4, 168-70°; o-EtOC6H4,
     3-pyridyl, 121-2°; PhCH:CH, 4-pyridyl, 115°; 3-pyridyl,
     o-ClC6H4, 85°; 3-pyridyl, p-H2NC6H4, 217°; 3-pyridyl,
     piperidinomethyl, - (maleate m. 141°); 3-pyridyl,
     2-(1-pyrrolidinyl)-ethyl, - (maleate m. 135°); 2-pyridyl,
     2-piperidinoethyl, - (maleate m. 135°); 2-pyridyl,
2-morpholinoethyl, - (di-HCl salt m. 198°); 3-pyridyl,
     p-ClC6H4OCH2, 135-8°; 4-pyridyl, Me, 97°; 4-pyridyl,
     3-pyridyl, 134°; 4-pyridyl, 4-pyridyl, 164°; 4-pyridyl,
     2-piperidinoethyl, 149°; 4-pyridyl, 2-morpholinoethyl, 143°; 2-ethyl-4-pyridyl, Me, - (HCl salt m. 221°); 2-ethyl-4-pyridyl,
     o-ClC6H4, 66°; 2-ethyl-4-pyridyl, 2-pyridyl, - (di-HCl salt m.
     230°); 2-ethyl-4-pyridyl, o-HOC6H4, 103°; 2-ethyl-4-pyridyl, 4-pyridyl, 67°; 2-ethyl-4-pyridyl, 2-ethyl-j-pyridyl, - (di-HCl
     salt m. 253°); 2-ethyl-4-pyridyl, p-ClC6H4-CH2, - (HCl salt m.
185-7°); 4-pyridyl, p-ClC6H4OCH2, 146-7°; 2-ethyl-4-pyridyl,
     2-piperidinoethyl, - (di-HCl salt m. 218°).
IT
     27199-40-2P 27199-41-3P 27199-42-4P
     27199-45-7P 27199-48-0P 27199-49-1P
     27390-37-0P 27390-40-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of)
RN
     27199-40-2 HCAPLUS
CN
     Pyridine, 4-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX
     NAME)
```

$$N - 0$$

RN 27199-41-3 HCAPLUS

CN Pyridine, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-, monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 27199-40-2 CMF C13 H8 C1 N3 O

CM 2

CRN 74-88-4 CMF C H3 I

 H_3C-I

RN 27199-42-4 HCAPLUS

CN Pyridine, 2-[5-(2-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

$$N - 0$$

RN 27199-45-7 HCAPLUS

CN Pyridine, 4-[5-(p-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27199-48-0 HCAPLUS

CN Pyridine, 3-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27199-49-1 HCAPLUS

CN Pyridine, 3-[5-(p-aminophenyl)-1,2,4-oxadiazol-3-yl]- (8CI) (CA INDEX NAME)

RN 27390-37-0 HCAPLUS

CN Pyridine, 4-[5-(o-chlorophenyl)-1,2,4-oxadiazol-3-yl]-2-ethyl- (8CI) (CA INDEX NAME)

RN 27390-40-5 HCAPLUS

CN Phenol, o-[3-(2-ethyl-4-pyridyl)-1,2,4-oxadiazol-5-yl]- (8CI) (CA INDEX NAME)

L5 ANSWER 28 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1969:403327 HCAPLUS

DN 71:3327

TI 1,2,4-Oxadiazolylpyridinium salts. Oral hypoglycemic agents

AU Fanshawe, William J.; Bauer, Victor J.; Safir, S. R.; Blickens, D. A.;

Riggi, S. J.

Organ. Chem. Res. Sect., Amer. Cyanamid Co., Pearl River, NY, USA CS

Journal of Medicinal Chemistry (1969), 12(3), 381-3 CODEN: JMCMAR; ISSN: 0022-2623

DT Journal

LΑ English

For diagram(s), see printed CA Issue. GΙ

A series of 1,2,4-oxadiazolyl-pyridinium quaternary salts (I) was AΒ synthesized by reaction of the appropriate amidoxime with various anhydrides and then quaternization with a variety of halides. I display hypoglycemic activity in mice.

IT 22926-72-3

> RL: RCT (Reactant); RACT (Reactant or reagent) (as oral hypoglycemic agent)

RN

22926-72-3 HCAPLUS
Pyridinium, 1-methyl-4-(5-phenyl-1,2,4-oxadiazol-3-yl)-, chloride (8CI) CN (CA INDEX NAME)

● cl-

IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN22926-71-2 HCAPLUS

Pyridine, 4-(5-phenyl-1,2,4-oxadiazol-3-yl)- (8CI, 9CI) (CA INDEX NAME) CN

ANSWER 29 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN L5

1967:464308 HCAPLUS AN

DN 67:64308

TI The conversion of imidazo[1,5-a] pyridines into 3-(2-pyridyl)-1,2,4oxadiazoles

ΑU Paudler, William W.; Kuder, James E.

CS Ohio Univ., Athens, OH, USA

Journal of Organic Chemistry (1967), 32(8), 2430-3 so CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LΑ

GI For diagram(s), see printed CA Issue. AB Imidazo[1,5-a]pyridine (I) and its 3-Me and 3-Ph derivs. rearrange, upon treatment with HONO, to 3-(2-pyridyl)-1,2,4-oxadiazole (II) and its 5-Me (III) and 5-Ph (IV) derivs., resp. Pyrolysis, alkaline hydrolysis, as well as mass, uv, and N.M.R. spectral studies were used to establish the structures of the rearrangement products. Compounds II and III were prepared by unequivocal syntheses. 19 references.

IT 13389-61-2P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 13389-61-2 HCAPLUS

CN Pyridine, 2-(5-phenyl-1,2,4-oxadiazol-3-yl)- (8CI) (CA INDEX NAME)

Unavailable

LA

L5ANSWER 30 OF 30 HCAPLUS COPYRIGHT 2005 ACS on STN AN 1955:77858 HCAPLUS DN 49:77858 OREF 49:14743g-i,14744a-b ΤI The synthesis of 1,2,4-oxadiazoles ΑU Clarke, Kenneth CS Univ. Hull, UK SO Journal of the Chemical Society, Abstracts (1954) 4251-3 CODEN: JCSAAZ; ISSN: 0590-9791 DTJournal

OS CASREACT 49:77858 AΒ The synthesis of amidoximes, RC(:NOH)NH2 (Ia), and corresponding 3-substituted 5-methyl (Ib) and 5-phenyl-1,2,4-oxadiazoles (Ic) from NH2OH (I) and some substituted PhCN, 3-cyanopyridine, and phthalodinitrile (II) was reported. o-O2NC6H4CN undergoes hydrolysis to o-O2NC6H4CONH2. II with I gave the dioxime, C8H7N3O2 (IIa), of phthalimide. Thus, 10 g. p-BrC6H4CN, 14 g. I.HCl, 10 g. anhydrous Na2CO3, and 150 ml. H2O were heated 1.5 hrs. on a steam bath (sufficient EtOH being added to keep the solution clear) and cooled to give 10.5 g. p-BrC6H4C(:NOH)NH2 (III), m. 146-7° (from EtOH); O-Ac derivative (IIIa), m. 145°; O-Bz derivative, m. 161° III (2 g.) and 6 ml. Ac20 were heated 3-4 min., the solution cooled, and excess Ac20 decompose to give 2.1 g. 3-p-bromophenyl-5-methyl-1,2,4-oxadiazole (IV), m. 103° (from EtOH). Heating IIIa above its m.p. for a few min. also gave IV. Similarly prepared were the following Ia (R, m.p., and m.ps. of the corresponding O-Ac and O-Bz derivs., of Ib and Ic given): Ph, 80°, 96°, 148°, 41°, 108°; p-MeC6H4, 147°, 132°, 173°, 80°, 107°; o-MeOC6H4, 123°, 130°, - (di-Bz derivative, C22H18N2O4, m. 139°), 121°, 117°; p-BrC6H4, 146°, 145°, 161°, 103°, 112°; p-O2NC6H4CH2, 170°, 145° 103°, 112°; p-O2NC6H4CH2, 170°, 145°, 148°, 68°, 132°; 3-pyridyl, 134°, 147°, 194°, 113°, 142°. II (5 g.), 14 g. I.HCl, 10 g.

Na2CO3, 150 ml. H2O, and 50 ml. EtOH were heated 1.5 hrs. on a steam bath

to give (6 g.) IIa, m. 271° (from HOAc or dilute C5H5N); diacetate, m. 192°; dibenzoate, m. 248°. Hydrolysis of 1 g. IIa in 25

ml. 65% HNO3 and 25 ml. concentrated H2SO4 gave 0.65 g. phthalimide, m. and

```
mixed m.p. 133°.
IT
     330656-02-5, Pyridine, 3-(5-phenyl-1,2,4-oxadiazol-3-yl)-
         (preparation of)
RN
     330656-02-5 HCAPLUS
CN
     Pyridine, 3-(5-phenyl-1,2,4-oxadiazol-3-yl)-(9CI)
                                                             (CA INDEX NAME)
=> s 14 not 15
             21 L4 NOT L5
1.6
=> dis 16 1-21 bib abs
     ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
L6
AN
     2004:1124567 HCAPLUS
DN
     142:74572
     Preparation of heterocyclic compounds for treating hepatitis C virus
ΤI
IN
     Vourloumis, Dionisios; Takahashi, Masayuki; Winters, Geoff; Zhou, Jinglan;
     Duchene, Russell
PA
     Anadys Pharmaceuticals, Inc., USA
SO
     PCT Int. Appl., 416 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
FAN.CNT 1
     PATENT NO.
                           KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
PΙ
     WO 2004110351
                           A2
                                  20041223
                                               WO 2004-US15249
                                                                        20040514
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
              LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
              TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
          RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
              SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2003-470200P
                                  20030514
                            Р
     MARPAT 142:74572
os
GI
```

AB The title compds. I [X, Y, Z = C, N; W = N, O, S; R1, R3-R5 = H, halo, NO2, etc.; R2 = H, alkyl], useful for treating Hepatitis C virus, were prepared E.g., a multi-step synthesis of II, starting from 2'-hydroxy-5'-methoxyacetophenone, was given. The compds. I were tested for inhibition of HCV replication in in vitro assays (the results of EC50 assay are given for 640 compds. I). The pharmaceutical composition comprising the compound I is disclosed.

L6 ANSWER 2 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:1033553 HCAPLUS

DN 142:38256

ΤI Preparation of 3-(2-amino-1-azacyclyl)-5-aryl-1,2,4-oxadiazoles as S1P receptor agonists

Colandrea, Vincent J.; Doherty, George A.; Hale, Jeffrey J.; Lynch, IN Christopher; Mills, Sander G.; Neway, William Edward, III; Toth, Leslie

PA Merck & Co., Inc., USA

SO PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DT Patent

LΑ English

FAN.	CNT 1																
	PATENT	NO.			KIN	D.	DATE			APPL	ICAT	ION	NO.		D.	ATE	
ΡI	WO 2004	1032	 79		72	-	2004	1202	,	 MO 2		11214	 837		2	0040	
															_		
	. W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	ВG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	ŪG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,
		SN,	TD,	TG									•				
PRAI	US 2003	-470	659P		P		2003	0515									
OS	МАРРАТ	142 .	3825	6													

GI

$$\begin{array}{c|c}
R^6 & E & G \\
D & N & X = Y \\
O & N & N \\
R^1 - N & R^2 & I
\end{array}$$

AB The present invention encompasses compds. of formula (I) [A = CR3 or N; D = CR4 or N; E = CR6 or N; G = CR7 or N, with the proviso that at least one of A, D, E and G is not N; X, Y, Z = N or CR8, with the proviso that at least one of X, Y and Z is not N; R1, R2 = H, C1-6 alkyl, optionally substituted with 1 to 3 halo groups; or NR1R2 together forms a 3- to 6-membered saturated monocyclic ring; R3, R4, R6, R7 = H, halo, cyano, C1-4 alkyl or C1-4 alkoxy, each optionally substituted with 1 to 3 halo groups; R5 = halo, each optionally substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-6 cycloalkyl, C1-6 alkoxy, C3-6 cycloalkoxy, C1-6 acyl, or aryl, heterocyclyl; or R4 and R5 may be joined together with the atoms to which they are attached to form a (un)substituted 5 or 6-membered monocyclic ring, optionally containing 1 to 3 heteroatoms selected from O, S and (un) substituted NH] as well as the pharmaceutically acceptable salts thereof. These compds. are useful for treating immune mediated diseases and conditions (imminoregulatory abnormality), such as autoimmune or chronic inflammatory disease, bone marrow, organ and tissue transplant rejection, graft-vs.-host disease, or respiratory disease or condition. They have utility as immunoregulatory agents as demonstrated by their activity as potent and selective agonists of the S1P1/Edg1 receptor over the S1PR3/Edg3 receptor with a selectivity for the S1P1/Edg1 receptor over the S1PR3/Edg3 receptor of more than 100 fold. They possessed an EC50 for binding to the S1P1/Edg1 receptor of less than 50 nM as evaluated by the [35S]GTPyS binding assay. Thus, 4-(2-methylpropyl)benzoic acid was treated with 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride and 1-hydroxybenzotriazole in DMF at room for 10 min and condensed with 2-chloro-N-hydroxynicotinamidine at 120° for 3 h to give 3-[2-(Chloro)pyridin-3-yl]-5-[4-(2-methylpropyl)phenyl]-1,2,4-oxadiazole (II). II was stirred with methylamine in DMF at 120° for 16 h to give 3-[2-(methylamino)pyridin-3-yl]-5-[4-(2-methylpropyl)phenyl]-1,2,4oxadiazole.

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L6 ANSWER 3 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
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AN 2004:696359 HCAPLUS

DN 141:225514

TI Preparation of heterocyclic compounds useful as Nurr-1 activators

IN Hintermann, Samuel; Hengerer, Bastian

PA Novartis AG, Switz.; Novartis Pharma GmbH

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

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PΙ
    WO 2004072050
                                20040826
                         A1
                                            WO 2004-EP1372
                                                                   20040213
        W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG,
             BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,
            CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
             ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
             IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC,
            LK, LR, LS, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MX,
            MZ, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
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             GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,
            GQ, GW, ML, MR, NE, SN, TD, TG
PRAI GB 2003-3503
                         Α
                                20030214
    MARPAT 141:225514
GI
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$$Y=X$$
 Z
 R^2
 R^2

AΒ The title compds. [I; R1 = OH, alkoxy, NH2, alkylamino, dialkylamino, benzyloxy, alkanoyl; R2 = alkyl, alkoxy, alkoxyalkoxy, CF3, halo, alkylamino, dialkylamino, dialkylaminoalkoxy, etc.; X = N, O; Y = N, O, CH; Z = N, CH; W = N, CH; provided that (a) R1 is not OH or alkoxy when R2 = CF3, X = O, Y = CH, Z = N and W = CH, (b) R1 is not OH or alkoxy when R2 = CF3 or Cl, X = N, Y = O, Z = CH and W = CH, (c) R1 is not OH when R2 = CF3, X = 0, Y = N, Z = CH and W = CH and (d) X and Y are not simultaneously O], useful for treating Parkinson's disease, were prepared E.g., a 3-step synthesis of 3-[3-(4-fluorophenyl)-[1,2,4]oxadiazol-5yl]benzoic acid, starting from 4-fluorobenzonitrile, was given. The compds. I showed significantly increase the Nurr1 responsive reporter gene activity dose dependently at EC50 of about 1 to 1000 nM. In vivo, the compds. I significantly increase midbrain dopamine levels at doses of 5 to 30 mg/kg p.o. in OF1 mice. The pharmaceutical composition comprising the compound I is claimed.

Ι

- L6 ANSWER 4 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2004:654838 HCAPLUS
- DN 141:325154
- TI Discovery of Novel Heteroarylazoles That Are Metabotropic Glutamate Subtype 5 Receptor Antagonists with Anxiolytic Activity
- AU Roppe, Jeffrey; Smith, Nicholas D.; Huang, Dehua; Tehrani, Lida; Wang, Bowei; Anderson, Jeffrey; Brodkin, Jesse; Chung, Janice; Jiang, Xiaohui; King, Christopher; Munoz, Benito; Varney, Mark A.; Prasit, Petpiboon; Cosford, Nicholas D. P.
- CS Merck Research Laboratories, San Diego, CA, 92121, USA
- SO Journal of Medicinal Chemistry (2004), 47(19), 4645-4648 CODEN: JMCMAR; ISSN: 0022-2623
- PB American Chemical Society

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DT
     Journal
LA
     English
     The highly potent, selective, and brain-penetrant metabotropic glutamate
AB
     subtype 5 (mGlu5) receptor antagonists 3-(5-pyridin-2-yl-2H-tetrazol-2-
     yl)benzonitrile and 3-fluoro-5-(5-pyridin-2-yl-2H-tetrazol-2-
     yl)benzonitrile are reported. Compound 3-(5-pyridin-2-yl-2H-tetrazol-2-
     yl)benzonitrile is active in the rat fear-potentiated startle (FPS) model
     of anxiety with ED50 = 5.4 \text{ mg/kg} (po) when dosed acutely. In this model
     the anxiolytic effects of 3-(5-pyridin-2-yl-2H-tetrazol-2-yl)benzonitrile
     rapidly tolerate on repeated dosing.
RE.CNT 20
               THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 5 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
L6
     2004:353142 HCAPLUS
AN
DN
     140:357200
     Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate
     inhibitors of \beta-lactamase
IN
     Besterman, Jeffrey M.; Rahil, Jubrail; Vaisburg, Arkadii
     Methylgene, Inc., Can.
PA
     U.S. Pat. Appl. Publ., 134 pp., Cont.-in-part of U.S. Pat. Appl. 2004
SO
     29,836.
     CODEN: USXXCO
DT
     Patent
LА
     English
FAN.CNT 3
     PATENT NO.
                          KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
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                                  _____
                                               _____
                         Al 20040429 US 2003-411484
PΙ
     US 2004082546
                                                                        20030408
     US 6472406
                          B1
                                20021029
                                               US 2000-610456
     US 2004059115
                          A1
                                  20040325
                                               US 2002-266213
                                                                       20021008
     US 2004029836
                          A1
                                  20040212
                                               US 2002-302124
                                                                        20021122
     WO 2004048393
                          A2 , 20040610
                                               WO 2003-US36929
                                                                        20031119
     WO 2004048393
                           A3
                                  20040819
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
              PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
              TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 1999-142362P
                            Р
                                  19990706
     US 2000-610456
                           A2
                                  20000705
     US 2002-266213
                           A2
                                  20021008
     US 2002-302124
                           A2
                                  20021122
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US 2003-411484

MARPAT 140:357200

OS

GΙ

A1

20030408

AB The intention relates to bacterial antibiotic resistance and, in particular, to compns. and methods for overcoming bacterial antibiotic resistance. The invention provides novel β -lactamase inhibitors I [R1 = (un)substituted (hetero)aryl; Z = C, CH2, S; n = 0-2; L = alkyl, alkoxy, CO, C(:NOMe); R2 = H, alkyl, cycloalkyl, aralkyl, aryl; R3 = H, alkyl, cycloalkyl, aryl, etc.; R4 = OH, F, SR7, N(R7)2; R5 = F, OR6, SR7, N(R7)2; R6 = H, alkyl, cycloalkyl, etc.; R7 = H, alkyl, cycloalkyl, etc.; with the provisos] which are structurally unrelated to the natural product and semi-synthetic β -lactamase inhibitors presently available and which do not require a β -lactam pharmacophore. The invention also provides pharmaceutical compns. and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.g., a 4-step synthesis of sodium salt of II which showed IC50 of 622 μ M against β -lactamase, was given.

L6 ANSWER 6 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:120574 HCAPLUS

DN 140:181318

TI Preparation of sulfonamidomethyl and carboxamidomethyl phosphonate inhibitors of β -lactamase

IN Besterman, Jeffrey M.; Rahil, Jubrail; Vaisburg, Arkadii

PA Can

SO U.S. Pat. Appl. Publ., 96 pp., Cont.-in-part of U.S. Ser. No. 266,213. CODEN: USXXCO

DT Patent

LA English

FAN. CNT 3

ran.	PATE	ONT N	10.			KIN	D :	DATE		į	APPL:	ICAT:	ION 1	NO.		Di	ATE		
ΡI	US 2	20040	0298	36		A1		2004	0212	1	US 2	002-	3021	24		2	0021	122	
	US 6	54724	106			В1		2002	1029	1	US 2	000-	6104	56		2	0000	705	
	US 2	20040	0591	15		A1	;	2004	0325	1	US 2	002-	2662	13		2	0021	800	
	US 2	20040	0825	46		A1		2004	0429	1	US 2	003-	4114	84		2	0030	408	
	WO 2	20040	0483	93		A2		2004	0610	Ţ	WO 2	003-1	JS36	929		2	0031	119	
	WO 2	20040	0483	93		A3		2004	0819										
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	
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			PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,	
			TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW				
		RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪG,	ZM,	ZW,	AM,	ΑZ,	
			BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	ΕE,	
			ES,	FI,	FR,	GB,	GR,	ΗU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
			TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TO

	US 2005043276	A 1	20050224	US 2004-884435	20040702
PRAI	US 1999-142362P	P	19990706		
	US 2000-610456	A2	20000705		•
	US 2002-266213	A2	20021008		
	US 2002-302124	A2	20021122		
	US 2003-411484	A 1	20030408		
os	MARPAT 140:181318				
GI					

$$\begin{bmatrix} O \end{bmatrix}_{n} \quad R^{3} \\ I \quad Z \quad N \quad P \quad R^{5} \\ R^{2} \quad O \quad I \quad F \quad O \quad II$$

AB The intention relates to bacterial antibiotic resistance and, in particular, to compns. and methods for overcoming bacterial antibiotic resistance. The invention provides novel β -lactamase inhibitors I [R1 = (un)substituted (hetero)aryl; Z = C, CH2, S; n = 0-2 when Z = S; n = 1 when Z = C; n = 0 when Z = CH2; L = alkyl, alkoxy, CO, C(:NOMe); R2 = H, alkyl, cycloalkyl, etc.; R3 = H, alkyl, aryl, etc.; R4 = OH, F, SR7, N(R7)2; R5 = F, OR6, SR7, N(R7)2; R6 = H, alkyl, cycloalkyl, etc.; R7 = H, alkyl, cycloalkyl, etc.; with the provisos] which are structurally unrelated to the natural product and semi-synthetic β -lactamase inhibitors presently available and which do not require a β -lactam pharmacophore. The invention also provides pharmaceutical compns. and methods for inhibiting bacterial growth. Preparation of compds. I is described. E.g., a 4-step synthesis of sodium salt of II which showed IC50 of 622 μM against β -lactamase, was given.

- L6 ANSWER 7 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2004:2699 HCAPLUS
- DN 140:53471
- TI Use of metabotropic glutamate receptor 5 (MGLUR5) antagonists for the treatment of gastroesophageal reflux disease (GERD) and other conditions
- IN Lehmann, Anders; Mattsson, Jan
- PA Astrazeneca AB, Swed.; NPS Pharmaceuticals, Inc.
- SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PA	TENT	NO.			KIN	D	DATE			APPL:	ICAT:	ION	NO.		D	ATE	
							_			•								
PI	WO	2004	0003	16		A 1		2003	1231	1	WO 2	003-1	US16	223		2	0030	619
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NI,	NO,	ΝZ,	OM,
			PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,
			TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ΥU,	ZA,	ZM,	ZW				

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1513525
                          A1
                               20050316
                                         EP 2003-731333
                                                                  20030619
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRAI SE 2002-1943
                         Α
                                20020620
    WO 2003-US16223
                          W
                                20030619
    The invention discloses the use of metabotropic glutamate receptor 5
AB
     antagonists for the inhibition of transient lower esophageal sphincter
     relaxations. The invention also discloses the use of metabotropic
     glutamate receptor 5 antagonists for the treatment of gastroesophageal
     reflux disease, as well as for the treatment of regurgitation, asthma,
     chronic laryngitis, lung disease, and failure to thrive.
              THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L6
     ANSWER 8 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN
     2003:928788 HCAPLUS
DN
     140:128346
TI
     The accelerated development of an optimized synthesis of
     1,2,4-oxadiazoles: application of microwave irradiation and statistical
     design of experiments
ΑU
     Evans, Marc D.; Ring, Jessica; Schoen, Adam; Bell, Andrew; Edwards, Paul;
     Berthelot, Didier; Nicewonger, Robb; Baldino, Carmen M.
     Chemistry Department, ArQule, Inc., Woburn, MA, 01801, USA
CS
SO
     Tetrahedron Letters (2003), 44(52), 9337-9341
     CODEN: TELEAY; ISSN: 0040-4039
PB
     Elsevier Science B.V.
DT
     Journal
LΑ
     English
OS
     CASREACT 140:128346
     Herein, the development of an optimized microwave-assisted synthesis of
AΒ
     1,2,4-oxadiazoles is reported. The chemical development process was
     significantly accelerated by employing a statistical software package
     (MODDE 6.0) to guide in the optimization of the reaction conditions.
     resulting optimized reaction conditions were then utilized in the
     synthesis of a focused library of 1,2,4-oxadiazoles.
RE.CNT 13
              THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
L6
     ANSWER 9 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
     2003:875115 HCAPLUS
AN
DN
     139:364949
TI
     Preparation of triaryl-oxy-aryloxy-pyrimidinetrione metalloproteinase
     inhibitors with selectivity towards MMP-13
IN
     Reiter, Lawrence Alan; Freeman-Cook, Kevin Daniel
     Pfizer Products Inc., USA
PA
SO
     PCT Int. Appl., 100 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LА
FAN.CNT 1
                                            APPLICATION NO.
     PATENT NO.
                         KIND
                                DATE
                                                                   DATE
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

WO 2003-IB1560

20030415

20031106

WO 2003090752

PΙ

A1

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                20050202
                                            EP 2003-712588
                                                                    20030415
                          A1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     BR 2003009386
                          Α
                                20050222
                                            BR 2003-9386
                                                                    20030415
     US 2004006057
                          A1
                                20040108
                                            US 2003-424614
                                                                    20030428
PRAI US 2002-375990P
                                 20020426
                          Ρ
     WO 2003-IB1560
                                 20030415
os
     MARPAT 139:364949
GI
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The present invention relates to triaryl-oxy-aryloxy-pyrimidine-2,4,6-AB triones (shown as I; variables defined below; e.g. II) that are metalloproteinase inhibitors and to pharmaceutical compns. and methods of treating inflammation, cancer and other disorders. For I: R1 = H, (R2)2n+1Cn- and (C3-C7)cycloalkyl; n = 1-5; each R2 = halo, (C1-C4)alkenyl, (C1-C4)alkynyl, R3-, R3O-, perfluoro(C1-C4)alkoxy, R3C(O)O-, (R3)2NC(O)O-, -NO2, (R3)2N-, R3SO2NR4-, (R3)2NC(O)-, R3C(O)(NR4)-, R3OC(O)(NR4)-, (R3)2NC(O)NR4-, R3S-, R3S(O)-, R3SO2-, (R3)2NSO2-, -CN, R3OC(O)-, and R3C(O). X = -O-, >C:O, -S-, >SO2, >S:O, >NR5, -CH2-, -CH2O-, -OCH2-, -CH2S-, -CH2S(O)-, -CH2SO2-, -SCH2-, -S(O)CH2-, -SO2CH2-, -[N(R5)]CH2-, -CH2[N(R5)]-, -[N(R5)]SO2- and -SO2[N(R5)]-; A = (C6-C10)aryl or (C1-C10)heteroaryl; Y = a bond, -O-, -S-, >C:O, >SO2, >S:O, -CH2O-, -OCH2-, -CH2S-, -SCH2-, -CH2SO-, -CH2SO2-, -SOCH2-, -SO2CH2-, >NR6, -[N(R6)]CH2-, -CH2[N(R6)]-, -CH2-, -CH:CH-, -C:C-, -[N(R6)]SO2- and -SO2[N(R6)]-; B = (C6-C10) aryl, (C3-C7) cycloalkyl, (C1-C10) heterocyclyl and (C1-C10) heteroaryl. G = -[R7(CR8R9)p]-; wherein the orientation of -B-G-W is -B-[R7-(CR8R9)p]-W or -B-[(CR8R9)p-R7]-W; p = 0-4; W = (C1-C4) alkoxy(C1-C4) alkyl, (C3-C7) cycloalkyl, (C6-C10) aryl, (C1-C10) heteroaryl and (C1-C10) heterocyclyl; addnl. details including

provisos are given in the claims. General semiquant. statements are made about inhibition of metalloproteinases by I; no data is presented for specific examples of I. Although the methods of preparation are not claimed, example prepns. of 8 intermediates and 76 I are included.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 10 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:737516 HCAPLUS
- DN 139:257284
- TI Cathepsin cysteine protease inhibitors and their therapeutic use
- IN Bayly, Christopher I.; Black, Cameron; Leger, Serge; Li, Chun Sing; McKay,
 Dan; Mellon, Christophe; Gauthier, Jacques Yves; Lau, Cheuk; Therien,
 Michel; Truong, Vouy-Linh; Green, Michael J.; Hirschbein, Bernard L.;
 Janc, James W.; Palmer, James T.; Baskaran, Chitra
- PA Merck Frosst Canada & Co., Can.; Axys Pharmaceuticals, Inc.
- SO PCT Int. Appl., 282 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

	PAT	CENT 1	NO.			KIN)	DATE		i	APPL:	ICAT:	ION 1	.00		D	ATE	
PI		2003						2003 2004		. 1	WO 2	003-1	JS61	47		2	00302	228
		W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	PL,
			PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,
			UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LŲ,	MC,	NL,	PT,	SE,	SI,	SK,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
	CA	2477	657			AA		2003	0918	(CA 2	003-	2477	657		2	0030	228
	US	2003	2328	63		A 1		2003	1218	1	US 2	003 - :	3773'	77		2	0030	228
	EP	1482	924			A2		2004	1208		EP 2	003-	7162	38		2	0030	228
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
	BR	2003	0082	80		Α		2005	0111		BR 2	003-	8208			2	0030	228
PRAI	US	2002	-361	818P		P		2002	0305									
	US	2002	-408	704P		P		2002	0906									
	WO	2003	-US6	147		W		2003	0228									
os	MAI	RPAT	139:	2572	84													

AB This invention relates to cysteine protease inhibitors R7(D)nCR6R7NR8CR3R4C(:O)NHCR1R2CN (R1-4 = H, (substituted)C1-6-alkyl or C2-6-alkenyl; R1 and R2 or R3 and R4 may be take together with the C atom to which they are attached to form a (substituted)C3-8-cycloalkyl or heterocyclic ring; R5 = H, (substituted)C1-6-alkyl; R6 = (substituted)aryl, heteroaryl, C1-6-haloalkyl, arylalky, heteroarylalkyl; D = (substituted)C1-3-alkyl, C2-3-alkenyl, C2-3-alkynyl, aryl, heteroaryl, C3-8-cycloalkyl, heterocyclyl; R7 = H, (substituted)C1-6-alkyl, C2-6-alkenyl, C2-6-alkynyl, C1-6-alkyloxy, etc.; R8 = H, C2-6-alkyl) including but not limited to, inhibitors of cathepsins K, L, S and B. These compds. are useful for treating diseases in which inhibition of bone resorption is indicated, such as osteoporosis.

L6 ANSWER 11 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:222333 HCAPLUS

DN 138:255233

TI Heteropolycyclic compounds, particularly pyridyl- and phenyl-substituted 1,2,4-oxadiazoles and analogs, and their use as metabotropic glutamate receptor antagonists for inhibiting neuronal damage

IN Van Wagenen, Bradford; Stormann, Thomas M.; Moe, Scott T.; Sheehan, Susan
M.; McLeod, Donald A.; Smith, Daryl L.; Isaac, Methvin Benjamin; Slassi,
Abdelmalik

PA NPS Pharmaceuticals, Inc., USA

SO U.S. Pat. Appl. Publ., 151 pp., Cont.-in-part of Appl. No. PCT/US00/22618. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

CAM.	CNI 2										•								
	PATE	NT N	10.			KIN	D	DATE		1	APPL:	ICAT:	ION 1	Ю.		D	ATE		
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ΡI	US 2	0030	05508	35		A 1		2003	0320	1	US 20	002-	7661	8		20	0020	219	
	US 6	6607	753			B2		2003	1209										
	WO 2	0010	1262	27		A1		2001	0222	1	WO 2	000-1	JS22	618		20	0000	818	
	,	W:	ΑE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
			DE.	DK.	EE.	ES.	FI.	GB,	GD.	GE,	GH,	GM,	HR.	HU,	ID,	IL.	IN.	IS,	
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			•	RU,	•	•	•	•	•		,	•	•	•	•	•	•	•	
		RW:	•	•	•		MW.	MZ,	SD.	STL	SZ.	Т7.	UG.	ZW .	AΤ.	BE.	CH.	CY.	
			•	•	•	•	•	GB,	•	•	•	•	•	•	•	•			
			•	•	•	•	•	GN,	•	•	•	•		•	•	~_,	22,	_,	
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PRAI	US 1					_		1999											
	WO 2	000-	-US22	2618		A2		2000	0818										
	US 2	001-	-2698	847P		P		2001	0221										
os	MARP	АТ 1	138:2	2552	33														
GI																			

$$Ar^{1}$$
 $Y-Z$
 I
 $N-O$
 N
 $N-O$
 II

AB The title compds. [I; X, Y, Z = N, O, S, CR1 and at least one of X, Y, and Z = heteroatom; R1 = H, alkyl, CF3, etc.; Ar1, Ar2 = (un)substituted (hetero)aryl] that act as antagonists at metabotropic glutamate receptors, and that are useful for treating neurol. diseases and disorders, were prepared The compds. I exhibit a high degree of potency and selectivity for individual metabotropic glutamate receptor subtypes, notably mGluR5. In particular, medical conditions associated with metabotropic glutamate receptors and therefore targeted by the invention compds. include stroke, head trauma, anoxic injury, ischemic injury, hypoglycemia, epilepsy, pain, migraine headaches, Parkinson's disease, senile dementia, Huntington's Chorea, and Alzheimer's disease. Several hundred specific examples are individually prepared and/or claimed. A variety of intermediates were also

prepared For instance, 5-methylpyrid-2-ylamidoxime was prepared from 2-bromo-5-methylpyridine by Zn- and Pd-complex-mediated cyanation (56%) and reaction of the resulting nitrile with NH2OH.HCl (60%). Cyclization of the amidoxime with 3-cyanobenzoyl chloride (86%) gave invention compound II. In a bioassay for mGluR5 antagonism in primary astrocyte cultures from rats, the invention compds. I had IC50 values in the range of 11 to 9140 nM.

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L6 ANSWER 12 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
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- TI Heteropolycyclic compounds, particularly pyridyl- and phenyl-substituted 1,2,4-oxadiazoles and analogs, and their use as metabotropic glutamate receptor antagonists for inhibiting neuronal damage
- IN Slassi, Abdelmalik; Van Wagenen, Bradford; Stormann, Thomas M.; Moe, Scott T.; Sheehan, Susan M.; McLeod, Donald A.; Smith, Daryl L.; Isaac, Methvin Benjamin
- PA Can.
- SO PCT Int. Appl., 272 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 3

	PAT	CENT	NO.			KINI)	DATE		į	APPL	ICAT:	ION 1	NO.		Di	ATE	
PI		2002						2002		1	WO 2	002-	US46	89		2	00202	219
		W:	AE, CO, GM, LS, PL, UA, TJ, GH,	AG, CR, HR, LT, PT, UG, TM GM,	AL, CU, HU, LU, RO, US,	AM, CZ, ID, LV, RU, UZ,	AT, DE, IL, MA, SD, VN,	AU, DK, IN, MD, SE, YU,	AZ, DM, IS, MG, SG, ZA,	DZ, JP, MK, SI, ZM,	EC, KE, MN, SK, ZW,	BG, EE, KG, MW, SL, AM, TZ, IT,	ES, KP, MX, TJ, AZ,	FI, KR, MZ, TM, BY,	GB, KZ, NO, TN, KG,	GD, LC, NZ, TR, KZ,	GE, LK, OM, TT, MD,	GH, LR, PH, TZ, RU,
			BF,	ВJ,	-	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
		2438 1379				AA A2						002-: 002-:				_	00202 00202	
			AT, IE,	BE, SI,	•	DE,	DK, FI,	ES, RO,	FR, MK,	GB, CY,	GR, AL,	IT,	LI,	LU,		SE,		PT,
		2002										002-		•		_	00202	
		2003														_	0030	
PRAI	US	2001	-269	847P		P		2001	0221									
	WO	2002	-US4	689		W		2002	0219									
OS GI	MAI	RPAT	137:	2013	15													

AN 2002:676015 HCAPLUS

DN 137:201315

AB The invention provides compds. and pharmaceutical compns. that act as antagonists at metabotropic glutamate receptors, and that are useful for treating neurol. diseases and disorders. Methods of preparing the compds. also are disclosed. The compds. exhibit a high degree of potency and selectivity for individual metabotropic glutamate receptor subtypes, notably mGluR5. In particular, medical conditions associated with metabotropic glutamate receptors and therefore targeted by the invention compds. include stroke, head trauma, anoxic injury, ischemic injury, hypoglycemia, epilepsy, pain, migraine headaches, Parkinson's disease, senile dementia, Huntington's Chorea, and Alzheimer's disease. The invention provides methods of treating diseases associated with excitatory activation of an mGluR Group I receptor, and of inhibiting neuronal damage caused by excitatory activation of an mGluR Group I receptor, specifically wherein the mGluR Group I receptor is mGluR5. In one aspect of the invention, the antagonists may be represented by the general formula Ar1-L-Ar2, wherein Ar1 is an optionally substituted heteroarom. moiety, and Ar2 is an optionally substituted benzene ring. The L moiety is a group that not only covalently binds to the Ar1 and Ar2 moieties, and which facilitates adoption of the correct spatial orientation of Arl and Ar2, but also itself may interact with the protein, to effect receptor binding. In one embodiment of the invention, L is selected from the group consisting of -NH-, -S-, -O-, -CO-, -CONH-, -CONHCH2-, -CH2CONH-, -CNHNH-, -CNHNHCH2-, -C=NOCH2-, -CH2NHCH2-, -CH2CH2NH-, -NHCH2CO-, -NHCH2CHOH-, -NHCNHNH-, -NHCONH-, cyclopentane, cyclopentadiene, furan, thiofuran, pyrrolidine, pyrrole, 2-imidazoline, 3-imidazoline, 4-imidazoline, imidazole, pyrazoline, pyrazolidine, imidazolidine, oxazole, 2-oxazole, thiazole, isoxazole, isothiazole, 1H-1,2,4-triazole, 1H-1,2,3-triazole, 1,2,4-oxathiazole, 1,3,4-oxathiazole, 1,4,2-dioxazole, 1,4,2-oxathiazole, 1,2,4-oxadiazole, 1,2,4-thiadiazole, 1,2,5-oxadiazole, 1,2,5-thiadiazole, 1,3,4-oxadiazole, 1,3,4-thiadiazole, 1H-tetrazole, cyclohexane, piperidine, tetrahydropyridine, 1,4-dihydropyridine, pyridine, benzene, tetrahydropyran, 3,4-dihydro-2H-pyran, 2H-pyran, 4H-pyran, tetrahydrothiopyran, 3,4-dihydro-2H-thiopyran, 2H-thiin, 4H-thiopyran, morpholine, thiomorpholine, piperazine, pyridazine, pyrimidine, pyrazine, 1,2,4-triazine, 1,2,3-triazine, 1,3,5-triazine, and 1,2,4,5-tetrazine. In another embodiment of the invention, Arl is selected from the group consisting of Ph, benzyl, naphthyl, fluorenyl, anthrenyl, indenyl, phenanthrenyl, and benzonaphthenyl, and Ar2 is selected from the group consisting of thiazoyl, furyl, pyranyl, 2H-pyrrolyl, thienyl, pyrroyl, imidazoyl, pyrazoyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, benzothiazole, benzimidazole, 3H-indolyl, indolyl, indazoyl, purinyl, quinolizinyl, isoquinolyl, quinolyl, phthalizinyl, naphthyridinyl, quinazolinyl, cinnolinyl, isothiazolyl, quinoxalinyl, indolizinyl, isoindolyl, benzothienyl, benzofuranyl, isobenzofuranyl, and chromenyl. Several hundred specific examples are individually prepared and/or claimed. A variety of intermediates were also prepared For instance, 5-methylpyrid-2-ylamidoxime was prepared from 2-bromo-5-methylpyridine by

Zn- and Pd-complex-mediated cyanation (56%) and reaction of the resulting nitrile with NH2OH.HCl (60%). Cyclization of the amidoxime with 3-cyanobenzoyl chloride (86%) gave invention compound I. In a bioassay for mGluR5 antagonism in primary astrocyte cultures from rats, the invention compds. had IC50 values in th range of 11 to 9140 nM.

- L6 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2002:632134 HCAPLUS
- DN 137:286807
- TI Influence of chemical structure on the mesomorphic behaviour of 3,5-disubstituted 1,2,4-oxadiazoles
- AU Torgova, S.; Karamysheva, L.; Strigazzi, A.
- CS FSUE"SRC"NIOPIK" (Organic Intermediates & Dyes Institute), Moscow, 103787, Russia
- SO Brazilian Journal of Physics (2002), 32(2B), 593-601 CODEN: BJPHE6; ISSN: 0103-9733
- PB Sociedade Brasileira de Fisica
- DT Journal
- LA English
- AB The correlation between chemical structure and mesomorphic properties is one of the most important problems in liquid crystal science. 3,5-Disubstituted 1,2,4-oxadiazoles are very convenient model-compds. for studying the dependence of the LC properties on the mol. design. The transition temps. and dielec. properties of 1,2,4-oxadiazoles depend significantly both on the position of the substituents with respect to the heterocycle and on their donor or acceptor features.
- RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2002:593318 HCAPLUS
- DN 137:270916
- TI Dielectric, calorimetric and optical investigations of pyridine-containing oxadiazoles
- AU Becchi, Marta; Agafonova, Irina F.; Geivandova, Tatiana A.; Karamysheva, Ludmila A.; Torgova, Sofia I.; Umanskii, Boris A.; Strigazzi, Alfredo
- CS Dipartimento di Fisica, Politecnico di Torino, Turin, I-10129, Italy
- SO Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2002), Volumé Date 2001, 372, 189-199
- CODEN: MCLCE9; ISSN: 1058-725X
- PB Taylor & Francis Ltd.
- DT Journal
- LA English
- AB Three series of new isomeric 4-, 3- and 2-pyridine containing 1,2,4-oxadiazoles were studied via DSC and optical microscopy. DSC and microscopy studies are mostly in good agreement and show that the transition temps. and type of mesophases strictly depend on the nature and the length of the substituent in the oxazolic part of 1,2,4-oxadiazoles and on the position of the heteroatom in the pyridine substituent. The mesomorphic properties of the compds. under study were compared with analogous 1,2,4-oxadiazoles, containing only carbocyclic units.
- RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 15 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2002:286136 HCAPLUS
- DN 136:309933

TI Preparation of oxadiazole derivatives as insecticides

IN Fujiwara, Atsushi

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 2002114783	A2	20020416	JP 2000-308828	20001010
PRAI	JP 2000-308828		20001010		
OS	MARPAT 136:309933				

GI

$$R^{4}$$
 R^{6}
 R^{7}
 R^{7}
 R^{2}
 R^{1}
 R^{1}

AB The title compds. I [R1 = halo; R2 = H, halo; R3 - R7 = H, halo, cyano, etc.] are prepared I [R1 = R3 = R4 = R5 = R6 = R7 = H; R2 = C1] at 500 ppm gave \geq 90% control of Aphis gossypii.

L6 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:816651 HCAPLUS

DN 135:358158

TI Preparation of N-[4-(oxadiazol-2-yl)phenylsulfonyl]-amino acid derivatives having therapeutic or preventive efficacies against glomerular disorders

IN Shinosaki, Toshihiro; Ninomiya, Mitsuyoshi; Watanabe, Fumihiko

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PAT	ENT 1	NO.			KIN	D :	DATE		1	APPL	ICAT:	ION I	NO.		D	ATE	
							_											
PI	WO :	2001	0834	64		A1		2001	1108	1	WO 2	001-	JP32	15		2	0010	416
		W:	ΑE,	AG,	ΑL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,
			HR,	HU,	ID,	IL,	IN,	·IS,	JP,	KE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
			LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
			SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,
			YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM				

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI JP 2000-120235 A 20000421

OS MARPAT 135:358158

GΙ

$$R^{5}$$
 R^{4}
 R^{4}
 R^{4}
 R^{3}
 R^{2}
 R^{2}
 R^{2}
 R^{2}

AB Pharmaceutical compns. for the treatment or prevention of glomerular disorders contain as the active ingredient compds. of the general formula [I; R1 = NHOH, OH, lower alkyloxy; R2, R3 = H, (un)substituted lower alkyl, aryl, aralkyl, heteroaryl, or heteroarylalkyl; R4 = (un)substituted arylene or heteroarylene; R5 = (un)substituted aryl, heteroaryl, or nonarom. heterocyclyl], prodrugs of the same, pharmaceutically acceptable salts of both, or solvates of them. These compds. I inhibit matrix metalloproteinase (MMP) and are safe and highly effective for the prevention or treatment of glomerular disorders, in particular glomerular nephritis and diabetic nephropathy. They are also useful for the treatment of osteoarthritis, aortic aneurysm, and diabetic retinopathy. Thus, N-sulfonylation of D-phenylalanine Me ester hydrochloride with 4-chlorosulfonylbenzoic acid in aqueous Na2CO3 at room temperature for 3 h gave N-(4-carboxyphenylsulfonyl)-L-phenylalanine Me ester which was converted into the acid chloride by treatment with oxalyl chloride in DMF at room temperature for 1 h and cyclocondensed with 4-fluorobenzamidoxime (preparation given)

in pyridine and diglyme at room temperature for 1 h and then at 110° for 3 h, followed by saponification with a mixture of 1 N aqueous NaOH and DMSO and acidification with aqueous 2 N HCl to give N-[4-[3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl]phenylsulfonyl]-D-phenylalanine. N-[4-[3-(5-chlorothiophen-2-yl)-1,2,4-oxadiazol-5-yl]phenylsulfonyl]-L-valine showed IC50 of 0.0051, 0.056, and 0.025 μ M against MMP-2, 8, and 9, resp.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:816650 HCAPLUS

DN 135:357931

TI Preparation of oxadiazole derivatives as anticancer agents inhibiting

IN Yoshioka, Takayuki; Maekawa, Ryuji; Watanabe, Fumihiko

PA Shionogi & Co., Ltd., Japan

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ----_____ _____ WO 2001-JP3214 PΙ WO 2001083463 **A1** 20011108 20010416 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

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CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
             HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                 20011112
     AU 2001046916
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                                             AU 2001-46916
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     CA 2406685
                                 20021017
                                             CA 2001-2406685
                                                                     20010416
                          AA
     EP 1277744
                          A1
                                 20030122
                                             EP 2001-919938
                                                                     20010416
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         R:
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     BR 2001010211
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                                             ZA 2002-8307
                                                                     20021015
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     US 2003203940
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     US 6720343
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     US 2004122066
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PRAI JP 2000-120234
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                                 20000421
     WO 2001-JP3214
                          W
                                 20010416
     US 2002-257917
                                 20021018
                          Α3
os
     MARPAT 135:357931
GI
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$$R^{5}$$
 $N - O$
 $R^{4} - SO_{2} - N$
 R^{2}
 $CO - R^{1}$

$$N-O$$
 $N-O$
 $N-O$

AB The title compds. I [R1 is hydroxyl or the like; R2 is optionally substituted lower alkyl or the like; R3 is hydrogen or the like; R4 is optionally substituted arylene or the like; and R5 is optionally substituted aryl or the like] are prepared The title compound II in vitro showed IC50 of 6 nM against MMP-2. Formulations are given.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2001:811834 HCAPLUS
- DN 136:93757
- TI Liquid crystalline pyridine-containing 1,2,4-oxadiazoles
- AU Karamysheva, Ludmila A.; Agafonova, Irina F.; Torgova, Sofia I.; Umanskii, Boris A.; Strigazzi, Alfredo
- CS SSC RF "NIOPIK" (Organic Intermediates and Dyes Institute), Moscow, 103787, Russia

- SO Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2001), 364, 547-556 CODEN: MCLCE9; ISSN: 1058-725X
- PB Gordon & Breach Science Publishers
- DT Journal
- LA English
- AB New mesomorphic 1,2,4-oxadiazoles containing as an electron-acceptor substituent the pyridine ring with different positions of the N atom with respect to the oxadiazole ring were synthesized. The reaction of the isonicotinic and nicotinic amidoximes with various acid chlorides smoothly provided the corresponding mesogenic 3-(4-pyridinyl)- and 3-(3-pyridinyl)-1,2,4-oxadiazoles. On the contrary with picolinic amidoxime as a starting material mainly noncyclized nonmesomorphic products were obtained. Temperature and dielec. characteristics of new pyridinic liquid crystals were measured and compared with analogous parameters of corresponding Ph (cyclohexyl) substituted oxadiazoles.
- RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2001:137213 HCAPLUS
- DN 134:193438
- TI Preparation of 3-(2-pyridyl)-5-phenyl substituted 1,2,4-oxadiazoles, 1,2-oxazoles and 1,2,4-triazoles as metabotropic glutamate receptor antagonists
- IN Van Wagenen, Bradford C.; Stormann, Thomas M.; Moe, Scott T.; Sheehan, Susan M.; McLeod, Donald A.; Smith, Daryl L.; Isaac, Methvin Benjamin; Slassi, Abdelmalik
- PA NPS Pharmaceuticals, Inc., USA
- SO PCT Int. Appl., 63 pp. CODEN: PIXXD2
- DT Patent
- LA English

FAN.CNT 3

LAN.	PAT	CENT 1	NO.														ATE	
PI	WO	2001	0126	 27													0000	818
		W:	ΑE,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
			DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,
			JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,
			MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,
			TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,
			MD,	RU,	ΤJ,	TM												
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪG,	ZW,	AT,	BE,	CH,	CY,
			•	•	•	•	•	•	GR,	•	•	•	•	•	•	SE,	BF,	ВJ,
				•	•		•	•	GW,				•	•				
	CA	2381	975			AA		2001	0222	•	CA 2	000-	2381	975		2	0000	818
	ΕP	1210	344			A1		2002	0605	1	EP 2	000-	9556	57		2	0000	818
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL							
	BR	2000	0134	27		Α		2002	0730	1	BR 2	000-	1342	7		2	0000	818
	JP	2003	5073	78		Т2		2003	0225		JP 2	001-	5175	25		2	0000	818
	ĒΕ	2002	0007	9		Α		2003	0616]	EE 2	002-	79			2	0000	818
	ΝZ	5172	21			Α		2004	0130]	NZ 2	000-	5172	21		2	0000	818
	ZA	2002	0013	58		Α		2003	0519		ZA 2	002-	1358			2	0020	218
	NO	2002	0008	23		Α		2002	0417		NO 2	002-	823			2	0020	219
	US	2003	0550	85		A 1		2003	0320	1	US 2	002-	7661	8		2	0020	219
	US	6660	753			B2		2003	1209									

	BG 106493	Α	20030131	BG 2002-106493	20020307
PRA	AI US 1999-149464P	P	19990819		
	WO 2000-US22618	W	20000818		
	US 2001-269847P	P	20010221		
os	MARPAT 134:193438				
GT					

$$Ar^1$$
 $Y-Z$
 I
 $N-O$
 CN
 II

- AB The title compds. [I; X, Y, Z = N, O, S, C, CO wherein at least one of X, Y, Z is a heteroatom; Arl, Ar2 = heterocyclic, fused heterocyclic moiety, aromatic moiety] which act as antagonists at metabotropic glutamate receptors, and are useful for treating neurol. diseases and disorders, were prepared Thus, reacting 3-cyanobenzoyl chloride with pyrid-2-ylamidoxime (preparation given) in pyridine afforded 64% II which showed IC50 of 43 nM in relation to CaR/mGluR5d and IC50 of 121 nM on the native receptor, mGluR5d.
- RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 20 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2001:118532 HCAPLUS
- DN 134:326461
- TI Parallel synthesis of 1,2,4-oxadiazoles from carboxylic acids using an improved, uronium-based, activation
- AU Poulain, R. F.; Tartar, A. L.; Deprez, B. P.
- CS Laboratoire de Chimie Organique, UMR 8525, Faculte des Sciences Pharmaceutiques et Biologiques, Lille, F-59006, Fr.
- SO Tetrahedron Letters (2001), 42(8), 1495-1498 CODEN: TELEAY; ISSN: 0040-4039
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- OS CASREACT 134:326461
- AB The synthesis of a library of 1,2,4-oxadiazoles from carboxylic acids and amidoximes is described using 2-(1H-benzotriazol-1-yl)-1,1,3,3-tetramethyluronium tetrafluoroborate (TBTU) as an activating agent of the carboxylic acid function for the O-acylation step.
- RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L6 ANSWER 21 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
- AN 2000:718232 HCAPLUS
- DN 133:296449
- TI Preparation of benzhydrylpiperazines and related compounds as P-glycoprotein inhibitors for enhancing the antitumor activity of other cytotoxic agents.
- IN Arnold, Lee Daniel; Coe, Jotham Wadsworth; Kaneko, Takushi; Moyer, Mikel Paul
- PA Pfizer Inc., USA
- SO U.S., 64 pp.

CODEN: USXXAM

DT Patent LA English FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
PI	US 6130217	Α	20001010	US 1995-513880	19950920			
PRAI	US 1995-513880		19950920					

OS MARPAT 133:296449

NR100R101R102 [R100 = Y1CH(Z1)(CH2)nY2B1A1Q1, CH2C(OH)R103CH2CH2OQ1, etc.; R103 = alkyl; Y1 = O, CH2, CH2CH2, bond; Z1 = H, OH, CF3, NO2, alkoxy; n = 1, 2; Y2 = O, S, NH, NMe, CONH, bond; B1 = bond, (substituted) Ph; A1 = bond, alkylene, O, S, NH; Q1 = specified (substituted) azolyl, (fused) Ph, etc.; R101 = R100, H, alkyl, (substituted) alkenylphenyl, alkylphenyl; R102 = Q4, Q5, Q6, etc.; X9 = H, OH, Cl, F, alkoxy, CF3, alkyl; dotted line = optional double bond; n = 1, 2; Q = S, O; R101R102N = Q7, Q8, etc.; with provisos], were prepared as P-glycoprotein inhibitors (no data). Thus, 1-benzhydrylpiperazine and 2-[2-(oxiran-2-ylmethoxy)phenyl]benzothiazole were refluxed 16 h in EtOH to give 42% 1-(4-benzhydrylpiperazin-1-yl)-3-(2-benzothiazol-2-ylphenoxy)propan-2-ol.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
·	ENTRY	SESSION
CA SUBSCRIBER PRICE	-37.23	-37.23

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^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *